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THE SIXTH ROCHESTER CONFERENCE ON COHERENCE AND QUANTUM OPTICS

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1850*

J.H. EBERLY, L. MANDEL AND E. WOLF PRINCIPAL INVESTIGATORS

AFOSR-TR- 1 11 3

FINAL REPORT

GRANT No. AFOSR-89-0154 November 1988 - May 1990 November 1990



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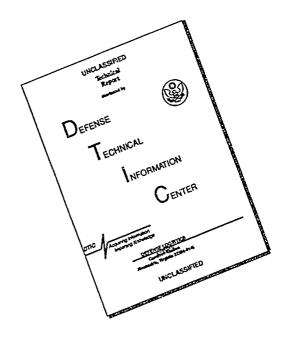
CONFERENCE SPONSORED BY
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
BOLLING AFB, D.C. 20332-6448

THE UNIVERSITY OF ROCHESTER

DEPARTMENT OF PHYSICS AND ASTRONOMY

ROCHESTER, NEW YORK

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J.H. Eberly, L. Mandel and E. Wolf, Editors 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) University of Rochester Dept. of Physics and Astronomy Rochester, New York 14627 9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) Air Force Office of Scientific Research Bolling AFB Washington, D.C. 20332-6448	NUMBERS . AFOSR-89-0154
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13. ABSTRACT (Maximum 200 words)	
The Sixth Rochester Conference on Coherence and Quantum Optics was	held on the
campus of the University of Rochester during June 26-28 1989 There	ware 306
registrants from 20 countries. 252 scientific namers including 31 ;	nuited namena
were presented at 45 different sessions, and there were also 22 poste full scientific report on the Conference is in the form of a book of	r papers. The
published by Plenum, New York, under the title Coherence and Quantum	Proceedings,
edited by the three principal investigators. This report is therefor of a brief summary.	Ontics VI.
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Conference			19
Optical Coherence			16. PRICE CODE
Quantum Optics			
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Abstract

The Sixth Rochester Conference on Coherence and Quantum Optics was held on the campus of the University of Rochester during June 26-28, 1989. There were 396 registrants from 26 countries. 252 scientific papers, including 31 invited papers, were presented at 45 different sessions, and there were also 22 poster papers. The full scientific report on the Conference is in the form of a book of Proceedings, published by Plenum under the title Coherence and Quantum Optics VI, edited by the three principal investigators. This report is therefore in the form of a brief summary.

1. Introduction

This is the Final Report on the Sixth Rochester Conference on Coherence and Quantum Optics, which was held on the campus of the University of Rochester during June 26-28, 1989, and was sponsored by the Air Force Office of Scientific Research, by the Optical Society of America, by the American Physical Society and by the University of Rochester.

The popularity of this series of Conferences is indicated by the number of participants, which has grown steadily over the years. The Sixth Conference was the largest. There were 396 registrants from 26 countries. 252 scientific papers, including 31 invited papers and 7 postdeadline papers were presented, which required 45 separate sessions. In addition, there were 22 poster papers.

The Conference reception and dinner were held on the evening of June 27, .

1989, with Professor Peter Franken of the University of Arizona as the featured after-dinner speaker.

The full technical report on the Conference is contained in the Proceedings of the Conference, edited by J.H. Eberly, L. Mandel and E. Wolf, which have just been published by Plenum, under the title <u>Coherence and Quantum Optics VI</u>. This book is 1328 + xix pages long. It was meant to have appeared in 1989, but the publisher experienced delays. Copies of the book will be submitted as soon as we receive them.

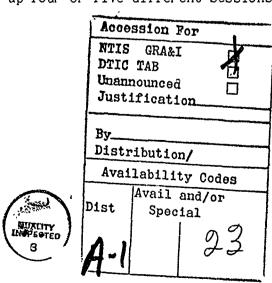
This report is therefore in the form of a brief summary. The Conference Program is attached as Appendix A, and a list of registrants forms Appendix B.

2. Brief Review

The Conference was organized with the help of a Program Committee consisting of the following:

- F.T. Arecchi (Istit. Naz. d'Ott., Firenze)
- N. Bloembergen (Harvard U.)
- C. Cohen-Tannoudji (Ecole Normale Superieure)
- H. Haken (U. Stuttgart)
- S. Haroche (Yale and Ecole Normale Superieure)
- A.L. Schawlow (Stanford U.)
- C.R. Stroud (U. of Rochester)
- D.F. Walls (U. of Auckland)
- H. Walther (Max-Planck-Inst. and U. Munchen)
- J.H. Eberly
 L. Mandel
 Joint Secretaries (U. of Rochester)
 E. Wolf

Among the topics that generated particularly great interest were Quantum Interference, Squeezing and Noise Reduction, Atom Trapping and Coolling, Instabilities and Chaos, Atom-Field Interactions, and Fundamental Tests of Quantum Mechanics. Some of these took up four or five different sessions.



University of Rochester Department of Physics & Astronomy



Sixth Rochester Conference on

Coherence and Quantum Optics

June 26-28, 1989

Program

PROGRAM COMMITTEE

F.T. Arecchi (Istit. Naz. d'Ott., Firenze)

N. Bloembergen (Harvard U.

Cohen-Tannoudji (École Normale Supérieure)

H. Haken (U. Stuttgart) S. Haroche (Yale and École Normale Supérieure)

A.L. Schawlow (Stanford U.)

C.R. Stroud, Jr. (U. of Rochester)

D.F. Walls (U. of Auckland)

H. Walther (Max-Planck-Inst. and U. München)

J.H. Eberly L. Mandel E. Wolf

Joint Secretaries (U. of Rochester)

the second capital letter signifies the auditorium (A Hubble, B Lander, C Hoyt, D Lattimore 201), Each conference session is identified by a three nifies the day (Monday, Tuesday, Wednesday), letter code, of which the first capital letter sigquarter of the day (a first, b second; c third, d and the third lower case letter designates the fourth) in which the session is held.

nvited papers are indicated by. *.

neld in the May Room of Wilson Commons from Nednesday afternoon. A poster session will be There will be a post-deadline session WDd on 10:30 a.m. to 4:00 p.m. Wednesday.

scheduled for Tuesday evening. Reception 6:45 The Conference Reception and Dinner are p.m., Dinner 7:30 p.m.

A movie entitled "A Fish Called Wanda" will be shown on Monday evening at 8:00 p.m. in the Hubble Auditorium.

Sponsored by the Air Force Office of Scientific Research the Optical Society of America the American Physical Society the University of Rochester

HUBBLE

LATTIMORE 201

HOYT HALL

OPENING SESSION Welcoming Remarks DENNIS O'BRIEN, President University of Rochester

8:30 a.m.

QUANTUM INTERFERENCE MAa

Chairman: B.J. THOMPSON

MAa1 *RODNEY LOUDON (Essex U.) "Spatially Localized One- and Two-Photon

9:00 a.m.

Interference"

MBa PHASE OF LIGHT

Chairman: R.J. GLAUBER

MBa1 *R. CHIAO (U.C., Berkeley) "Optical Phase: Classical and Quantum Aspects" Manifestations of Berry's Topological

9:15 a.m.

MAa2 'DAVID W. KEITH, M.L. SCHATTENBURG, HENRY I, SMITH and DAVID E. PRITCHARD (MIT) "Diffraction Gratings for Atom 9:30 a.m.

Interferometers

9:45 a.m.

MAa3 A. ten WOLDE, L.D. NOORDAM, H G.

10:00 a.m.

MULLER, A. LAGENDIJK and H.B. van LINDEN van den HEUVELL (FOM Inst., Amsterdam)
"Observation of Electronic Wave Packets"

MAa4 JOHN A. YEAZELL, MARK MALLALIEU

10:15 a.m.

and C.R STROUD, Jr. (U. Rochester)
"The Production and Detection of Spatially
Localized Atomic Electron Wave Packets"

COFFEE BREAK

10:30 a.m.

MBa2 R. SIMON (C.I.T., Madras) "Geometric Phases in Optics: Some Pedestrian Considerations"

MBa3 CHRISTOPHER C. GERRY (St. Bonaventure U.) "Manifestation of Berry's Phase in Parametric Amplifiers"

MBa4 S M. BARNETT (Oxford U.), D.T. PEGG and J.A. VACCARO 'Griffith U.) "Applications of the Optical Phase Operator"

MBa5 AHMET ELCI (U. New Mexico) "Coherent Scattering of Light in an

Aharonov-Bohm Geometry"

HUBBLE

MAb	LASERSI	MBb SQUEEZING AND NOISE REDUCTION I	MCb CAVITY OED I
	Chalman: H. RISKEN	Chairman: R.E. SLUSHER	
1:00 a.m.	MAb1 *M.O. SCULLY (U. New Mexico and Max- Planck Inst.) and M.S. ZUBAIRY (Quard- I-Azam U.) *Theory of the Correlated Spontaneous Emission Laser*	MBb1 *C.W. GARDINER, A.S. PARKINS (U. Waikato), A S. LANE (U. Southern California) and D.F. WALLS (U. Auckland) "Atoms and Squeezed Light"	MCb1 "H.J. KIMBLE, M.G. RAIZEN, R.J. BRECHA, H.J. CARMICHAEL, Y. SHEVY and R.J. THOMPSON (Cal. Tech.) "Dissipative Quantum Dynamics in Cavity Quantum Electrodynamics"
11:15 a.m.			
1:30 a.m.	MAb2 NING LU, SHI-YAO ZHU, G.S. AGARWAL (U. New Mexico) "Comparative Study of Various Quasi-Probability Distributions in Different Models of Correlated-Emission Lasers"	MBb2 *P.L. KNIGHT (Imperial College) "The Interaction of Squeezed Light with Atoms"	MCb2 B.J. HUGHEY, T.R. GENTILE, D. KLEPP- NER (MIT) and T. DUCAS (Wellesley College) "Atom-Photon Interaction Modified by a Microwave Cavity"
1;45 a.m.	MAb3 MARLAN O. SCULLY, ShYAO ZHU (U. New Mexico) and ATHANASIOS GAVRIELIDES (Kirtland AFB) "The Degenerate Quantum Beat Laser Lasing without Inversion"		MCb3 F. De MARTINI, M. MARROCCO end D. MURRA (U. Roma) "Strong Photon-Localiza- tion in Microcavity Stimulated-Emission"
12:00 Noon	MAb4 B.J. DALTON (U. Queensland) "Correlated Emission Laser. Coherent Optical Pumping in Three Level Vee Systems Coupled to Two Cavity Modes"	MBb3 K. WODKIEWICZ (Warsaw 1.1.) and A. ORLOWSKI (SGGW-AR, Warsaw) On the Phase-Space Approach to Squeezed Phenomena in Quantum Optics"	MCb4 N. NAYAK, R.K. BULLOUGH, B.V. THOMPSON and G.S. AGARWAL (UMIST) "Exact Quantum Theory of a Rydberg Atom in Cavites of Arbitrary Q at Finite Temperature T, and the ⁶⁸ Rb Atom Maser"
2:15 p.m.	MAb5 N.B. ABRAHAM and D.E. CHYBA (Bryn Mawr) "Emission Frequency of a Homogeneously Broadened Laser Operating below Threshold"	MBb4 ARTUR K. EKERT (Oxford U.) and PETER L. KNIGHT (Imperial College) "The Wigner Function of Two-Mode Squeezed States; Free and Dissipative Evolution"	MCb5 JAKUB ZAKRZEWSKI and TOMASZ DOHNALIK (Jagellonian U.), "Hanle Type Resonances in Frequency Dependent Photon Reservoirs"
1,30 p.m.	MAb6 NING LU and SHI-YAO ZHU (U. New Mexico) "Quantum Theory of Two-Photon Correlated-Spontaneous-Emission Lasers: Exact Atom-Field Interaction Hamiltonian"	MBb5 MARTIN WILKENS, MACIEJ LEWENSTEIN and JAN GROCHMALICKI (Polish Acad. of Sciences) "Quantum Noise Reduction in Photodetection Processes"	MCb6 M. LINDBERG (U. Arizona) and E. KYRÖLÁ (U. Helsinki) "An Infinite Ladder Coupled to a Quantum Mode: An Exactly Solvable Quantum Model"

MDb2 P.D. LETT, C.I. WESTBROOK, R.N. WATTS, S.L. ROLSTON, C.E. TANNER, W.D. PHILLIPS (NIST, Gaithersburg), P.L. GOULD (U. Connecticul), H.J. METCALF (SUNY, Stony Brook) "Multilevel Atoms: Cooling below the

Doppler Limit"

Supérieure) "The Limits of Laser Cooling"

MDb1 *J. DALIBARD (École Normale

MDb ATOM TRAPPING AND COOLING !

Chairman: S. STENHOLM

LATTIMORE 201

HOYT HALL

MDb4 R. GRIMM and J. MLYNEK (ETH, Zürich)
"Resonant Light Pressure in Gases: Modifications of Absorption and Dispersion

Profiles"

MDb5 M.C. de LIGNIE and E.R. ELIEL (U. Leiden) "Coherence Effects in Light-Induced Drift"

LUNCH BREAK

:45 p.m.

MDb3 J. JAVANAINEN and P.L. GOULD (U. Connecticut) "Rectification of the Light Pressure Force Acting on a Three-State Atom"

LANDER	Ses Mac SQUEEZING AND NOISE REDUCTION II	Chalrman: D.F. WALLS
2	300	
MAC NON-LINEAR AND PARAMETRIC PROCESSES		Chairman: E. JAKEMAN
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HUBBLE

MAC1 M. WOLINSKY and H.J. CARMICHAEL (U. Texas, Austin) "Photoelectron Counting Statistics for the Degenerate Parametric Oscullator"

?:00 p.m.

:15 p.m.

MBc1 'S. REYNAUD, A. HEIDMANN, E. GIACO-

BINO, C. FABRE (École Normale Supérieure)

Transformation for Quantum Fluctuations"

"A Semiclassical Linear Input Output

MAc2 C.D. NABORS and R.L. BYER (Stanford MAc3 P.K. ARAVIND (Worcester Polytechnic U.) "Monolithic Optical Parametric Oscillators for Quantum Optics"

30 p.m.

Inst.) "Measuring the Wigner Angle with a Parametric Amplifier"

CHRISTOPHER GIRANDA, MARTIN F. SQUIC-CIARINI and LLOYD, C. BOBB (Naval Air Devel-MAC4 MICHAEL B. RANKIN, JON P. DAVIS, opment Center) "G (2) and the Two-Photon Transition Rate; An Experimental Study"

45 p.m.

MAC5 SURYA P, TEWARI (U. Hyderabad) and S P. TEWARI (U. Delhi) "A Theory for Second Harmonic Generation in Dense Atomic Vapour

i Xo p.m.

MBc3 A.M. KHAZANOV, G A. KOGANOV (Acad. Sciences USSR, Komsomolsk on Amur), E.P. GORDOV (Acad. of Sciences USSR, Tomsk) Generation in a Three-Level Atom Laser" "On the Feasibility of Squeezed-State

MBc4 P. GALATOLA, ".A. LUGIATO, M. VADACcal Bistability and Degenerate Four-Wave Mixing" N B. ABRAHAM (Bryn Mawr), L.M. NARDUCCI CHINO, WANG KAIGE (Torino Politecnico), (Drexel U.) "Squeezing in Two-Photon Opti-

MBc5 PERRY R. RICE (Miami U.) "Single-Atom Cavity-Enhanced Absorption with Injected Squeezed Vacuum*

MCc6 W.R. GARRETT, R.C. HART, M.A. MOORE

and M.G. PAYNE (Oak Ridge Natl. Lab.)

"Saturation Behavior of Parametric Four-Wave Mixing Due to Two-Photon Interfer-

ance Effect"

HOYT HALL

PHASE CONJUGATION AND MIXING

S N C

Chairman: I. BIALYNICKI-BIRULA

MCc1 HENK F. ARNOLDUS (Villanova U.) and THOMAS F. GEORGE (SUNY, Buffalo) "Extra-

ordinary Behavior of Atoms near a Phase

Conjugator"

Chalmian: M.O. SARGENT III

ATOM TRAPPING AND COOLING II

MDc

LATTIMORE 201

MDc1 *R. BLÜMEL (Max-Planck Inst Garching) "Noise and Coherence in Strongly Perturbed Rydberg Atoms" MDc2 'W.M. ITANO, J.C. BERGOUIST, F. DIEDRICH and D.J. WINELAND (NIST, Boulder) "Quantum Optics of Single, Trapped lons"

MCc3 W. KROLIKOWSKI, M. CRONIN-GOLOMB

(Tufts U.) and A. BLEDOWSKI, A. KUJAWSKI

KIMBLE (Cal. Tech.) "Squeezed State Gen-MBc2 S.F. PEREIRA, K.-C. PENG and H.J.

eration and QND Detection by Nondegen-

erate Parametric Down Conversion"

Instabilities and Chaos in Photorefractive

Four-Wave Mixing"

(Polish Acad. of Sciences) "Temporal

MCc4 Y.B. BAND, D.F. HELLER and J.S.

KRASINSKI (Allied-Signal Inc.)
"Spectrum of Three Wave Mixing for Multimode Beams."

MCc2 ALEXANDER L. GAETA and ROBERT W.

BOYD (U. Rochester) "Quantum Statistical

Properties of Optical Phase Conjugation"

MDc3 H. GILHAUS, R. BLATT, W. NEUHAUSER and P.E. TOSCHEK (U. Hamburg) "Photo-Dynamics of a Single Trapped Three-Level Ion"

MCc5 A. POSTAN and Y. BEN-ARYEH (Redstone

Arsenal) "Brillouin Enhanced Reflectivity for Different Intensity Pump Waves"

MDc4 M. TRIPPENBACH and J. COOPER (JILA) 'Theory of the Slow, Identical Atom Collisions in a Radiation Field"

COFFEE BREAK

0 p m.

5 p.m,

			•	
	HUBBLE	LANDER	НОҮТ НАLL	LATTIMORE 201
MAd	LASERS II MBd	SQUEEZING AND NOISE REDUCTION III MCd	CAVITY QED II	MDd COHERENT TRANSIENTS
	Chairman: R.W. BOYD	Chairman: M.D. LEVENSON	Chairman: S. HAROCHE	Chalmun: S.R. HARTMANN
60 p.m.	MAd1 *L.A. LUGIATO (Torino Politecnico), L.M. NARDUCCI, GL. OPPO and J.R. TRE- DICCE (Drexel U.) "Spatial Instabilities and Symmetry Breaking in Lasers and Other Optical Systems"	MBd1 HORACE P. YUEN (Northwestern U.) "Efficient Photon Number Detection"	MCd1 'P. MEYSTRE (U. Arizona) "Measurements, Dynamics and State Preparation in a Micromaser"	MDd1 • J. MLYNEK, M. ROSATZIN and D. SUTER (ETH, Zurich) "Optically Induced Coherent Spin Translants in an Atomic Ground State"
:15 p.m.		MBd2 M.S. KIM, F.A M. de OLIVEIRA and P.L. KNIGHT (Imperial College) "Proper- ties of Squeezed Number and Squeezed Thermal States"		
	MAd2 F.T. ARECCHI, R. MEUCCI, M. CIOFINI (Istituto Nazionale di Ottica, Firenze) "Delayed Bifurcations in a CO ₂ Laser with a Slowly Swept Pump"	MBd3 B. HUTTNER and Y. BEN-ARYEH (Technion) "Influence of the Local Oscillator on Homodyne Detection of Squeezed Vacuum"	MCd2 'Y. YAMAMOTO, S. MACHIDA, K. IGETA and K. HORIKOSHI (NTT, Japan) "Enhanced and Inhibited Spontaneous Emission from GaAs Quantum Wells by Modified Vacuum Field Fluctuations"	MDd2 V, FINKELSTEIN and P R. BERMAN (New York U.) "Stimulated Photon Echo Induced by Broad-Bandwidth Pulses"
1,45 p.m.	MAd3 GEORGE GRAY and RAJARSHI ROY (Georgia Tech.) "Quantum Noise Initiated Mode Hopping in Semiconductor Lasers"	MBd4 ORHAN AYTUR, PREM KUMAR and JIANMING HUANG (Northwestern U.) "Generation of Squeezed Light with an Incoherent Pump"		MDd3 LAURENCE E. FRIED, YI JING YAN and SHAUL MUKAMEL (U. Rochester) "A Semiclassical Theory of Ultrafast Pump-Probe Spectroscopy: Visualization and Interpretation of Experiment"
6.30 p.m.	MAd4 P. RU, L.M. NARDUCCI (Drexel U.) and L.A. LUGIATO (Torino Poltecnico) "Spontaneous Spatial Symmetry Breaking in a Fabry-Perot Laser"	MBd5 STEPHEN C. McCLAIN and LLOYD HILLMAN (Cornell U.) "Understanding Squeezed States and Their Detection Using the Schrodinger Picture"	MCd3 R J. BRECHA and H.J. CARMICHAEL (Cal. Tech.) "Nonclassical Photon Corre- lations in Cavity QED"	MD44 FRANK C. SPANO (U. Rochester) and W.S. WARREN (Princeton U.) "Superradiant Effects in Photon Echo Decays"
6.15 p.m.	MAd5 J.S. UPPAL, L. WEIPING and R.C. HARRISON (Herrot-Watt U.) "Bistable and Sustained Oscillatory Behavior of Coherently Pumped Three-Level ow Laser"	MBd6 V. PEŘINOVA (Palacky U.), C. SIBILIA, M. BERTOLOTTI (U. Roma) and J. PEŘÍNA (Palacky U.) "Príncipal Squeezing in Optical Devices"	MCd4 P. ALSING and HJ. CARMICHAEL (U. Texas, Austin) "Single-Atom Cavity-Enhanced Absorption: Steady-State Field in the Strong-Coupling Limit"	MDd5 A. SZABO and T. MURAMOTO (N.R.C., Canada) "Experimental Test of the Optical Bloch Equations for Solids using Free Induction Decay and Hole-Burning"
530 p.m.	MAd6 CHR. TAMM (Physikalisch-Tech. Bundes- anstalt, Braunschweig) "Bistability and Optically Induced Switching of Spatial Field Patterns in a Laser"		MCd5 PHILIP GOLDBERG (Staten Island College) "Optical Correlation Functions and Squeezing in the Jaynes-Cummings Model"	MDd6 SURYA P. TEWARI and M. KRISHNA KUMARI (Hyderabad U.) "Transient Spectrum of Two Level Atoms Interacting with Amplitude Modulated Intense Radiation"
6 00 p.m.	DINNER			

MOVIE SHOW: "A Fish Called Wanda"

.00 p.m.

LATTIMORE 201	INSTABILITIES AND CHAOS I	Chairman: F.T. ARECCHI	TDa1 *J.E. BAYFIELD (U. Puttsburgh) "Classically Chaotic Near-Classical Microwave Ionization"		TDa2 R.G. DeVOE, J. HOFFNAGLE, J. ROSENKRANZ, L. REYNA and R.G. BREWER (IBM, San Jose) "Order and Chaos in Trapped Ion Crystals"	TDa3 A.T. ROSENBERGER, L.A OROZCO and H.J. KIMBLE (U. Texas, Austin) "Absorptive Optical Bistability in Two- State Atoms"	TDa4 M. SCALORA, J.W. HAUS (Rensselaer Polytechnic Inst.) and C.M. BOWDEN (Redstone Arsenal) "Intrinsic Optical Bıstability in a Cavıty"	TDa5 E.J. GALVEZ, L. MOORMAN, B.E. SAUER, P.M. KOCH (SUNY, Story Brook), D. RICHARDS, J.G. LEOPOLD (Open Univ., U.K.) and R.V. JENSEN (Yale U.), "Microwave Excitation and Ionization of H Atoms at High Scaled Frequencies: Comparisons."
	SI TDa				SAVES	nas)		
ноут нац	NON-CLASSICAL PHOTON STATISTICS I	Chairman: R. LOUDON	TCa1 *E. JAKEMAN (R.S R.E., Malvern) "Generation, Detectron and Applications of Sub-Poissonian Light"		TCa2 CHANG ZHU AND CARLTON M. CAVES (U. Southern California) "Photocount Statistics of Continuous-Wave Squeezed Light"	TCa3 F.T. ARECCHI, R. MEUCCI (Istituto Nazionale di Ottica, Firenze) and J.A. ROVERSI (Universidade Estadua), Campinas) "Determination of a Small Photon Number by Statistical Amplifying Transients"	TCa4 G.J. MILBURN (U. Queensland) "Preparation of Nonclassical States by Conditional Measurement"	
	TC _a							
LANDER	SQUEEZING AND NOISE REDUCTION IV	Chairman: P.D. DRUMMOND	TBa1 A. PAUL, M. LINDBERG, S. AN, M. SARGENT III and S.W. KOCH (U. Arizona) "Squeezing in Coherently Pumped Semiconductors"	TBa2 G. KURIZKI and M. SHAPIRO (Weizmann Inst. of Science) "Detection of Squeezed Light by Coherently Superposed Detector States"	TBa3 L.A. LUGIATO, P. GALATOLA (Torno Politecnico) and L.M. NARDUCCI (Drexel U.) "Universal Normal-Form Description of Squeezing in Two-Photon Processes"	TBa4 JAGDISH RAI, RAMARAO INGUVA and CHARLES M. BOWDEN (Recistone Arsenal) "Wigner Distribution Function for Optical Fields and Its Application to the Detection of Squeezed States"	TBas C L. MEHTA (I.IT., New Delhi) and G.M. SAXENA (National Physical Lab., New Delhi) "Para-Bose Squeezed States"	TBa6 R. SIMON (C.I.T., Madras) "A Geometric Representation for Squeezing: the ABCD Law"
	TBa			AAS				
HUBBLE	a RAMAN SCATTERING	Chairman: T.W. MOSSBERG	TAa1 M.G. RAYMER (U. Oregon), Z.W. LI and I.A. WALMSLEY (U. Rochester) "Temporal Quantum Fluctuations in Stimu- lated Raman Scattering"	TAa2 MARK HERMANN, SHAM DIXIT and THOMAS KARR (Lawrence Livermore Natl. Lab.) "Theoretical Calculations of Multiple Rotational Level Raman Scattering in Nitrogen"	TAa3 R.C. SWANSON, D.C. MacPHERSON and J.L. CARLSTEN (Montana State U.) "Quantum Fluctuations in the Stimulated Raman Scattering Spectrum"	TAa4 AHMET ELCI (U. New Mexico) and DAVID DEPATIE (Kirtland AFB) "Bloch Electrons in Coherent Light: A New Type of Renormalization"	TAa5 SHAM DIXIT and MARK HERMANN (Lawrence Livermore Natl. Lab.) "Degeneracy Effects in High Intensity Stimulated Rotational Raman Scattering"	TAa6 S.J. KUO and M.G. RAYMER (U. Oregon) "Spatial Quantum Fluctua- tions in Stimulated Raman Scattering"
	TAa		9:00 a.m.	9:15 a.m.	9:30 a.m.	9:45 a.m.	10 00 a.m.	10:15 a.m.

COFFEE BREAK

10.30 a.m.

LATTIMORE 201

LATTIMORE 201	•	Chairman: R.K. BULLOUGH	TDb1 •J.M. RAIMOND (École Normale Supéri-	eure) "Fluctuations and Dynamics of Rydberg Atom Masers"		TDb2 T.R. GENTILE, B.J. HUGHEY, D. KLEPT-NER (MIT) and T.W. DUCAS (Wellesley College) "An Experimental Study of One- and Two-Photon Rabi Oscillations in Calcium Rydberg States"	TDb3 P.L. GOULD and J. JAVANAINEN (U. Connecticut) "Linear Intensity Depend- ence of a Two-Ph-ton Transition Rate"	TDb4 ZHIDANG CHEN and HELEN FREEDHOFF (York U.) "Radiation Theory for Two-Photon Processes"	TDb5 E.P. GORDOV (USSR Acad. of Sciences, Tomsk), A.M. KHAZANOV and G.A. KOGANOV (USSR Acad. of Sciences, Komsomolisk on Amur) "Nonlinearity and Quantum Noise: Separation of Fluctuations in Liouville Operator: Laser on Two-Photon Transitions."	TDb6 A.W. BOONE and S. SWAIN (Queen's U., Belfast) "Theory of the Two-Photon Laser"
HOYT HALL	RING LASERS TDb	Chairman: M.G. RAYMER	DIE NIEDE I BORN SENTENCE I BABINY and	RAJARSHI ROY (Georgia Tech.) "Stochas- tíc Resonance in Bistable Systems"	TCb2 REETA VYAS and SURENDRA SINGH (U. Arkansas) "Nonlinear Interaction of Modes in the Ring Laser with a Saturable Absorber"	TCb3 T.H. CHYBA and L. MANDEL (U. Rochester) "Investigation of π . hase Jumps in a Ring Laser"	TCb4 G. D'ALESSANDRO, A. POLITI and FT ARECCHI (Isituto Nazonale di Ottica, Firenze) "Competition between Counter-Propagating Waves in Laser Dynamics"	TCb5 FC CHENG and L MANDEL (U Rochester) "Behavor of a Ring Laser with Injected Signal near Threshold"	TCb6 L. PESQUERA and R. BLANCO (U. Cantabra) "Gas Ring Lasers with Backscattering: One-Time Statistical Properties and Intensity Correlation Functions".	Tcb7 GAUTAM VEMURI and RAJARSHI ROY (Georgia Tech) "Brürectional Laser with an Injected Signal A Digital Detector"
LANDER	COHERENCE AND FLUCTUATIONS I		Chairman: H.A. FERWERDA	TBb1 'F, GORI (U Roma) "Some Modal Expansions of Partially Coherent Fields"		TBb2 WEIJAN WANG and EMIL WOLF (U. Rochester) "Coherence Properties of Light Propagating in a One-Dimensional Lorentz Medium"	TBb3 DANIEL F.V. JAMES (U. Rochester) "The Spectrum of Radiation from a Moving Source of Any State of Coherence"	TBb4 AVSHALOM GAMLIEL (U. Rochester) "Spectral Changes in Light Propagation from a Class of Partially Coherent Sources"	TBb5 HANS M PEDERSEN (Norwegran Inst. of Technology) "Exact Geometrical Description of Free Space Radiative Energy Transfer for Scalar Wavefields"	
u a a a a a a a a a a a a a a a a a a a		LASERSIII	Chairman: H.S. PILLOFF	TAb1 F, HAAKE (U. Essen), D.F. WALLS and S. TAN (U. Auckland) "Photon Noise Reduction in Lasers by Suppression of Pump Fluctuations"	TAb2 FENGLEI ZHOU, MURRAY SARGENT III and STEPHAN W. KOCH (U. Arizona) "Theory of Sidemode Generation in Semiconductor Lasers Due to Population Pulsation"	TAES KARL KOCH, STEPHEN H. CHAKMAKJIAN, STEPHANOS PAPADEMETRIOU and C.R. STROUD, Jr. (U. Rochester) "Excited-State Relaxation Dye Lasers"	TAB4 M. MORIN, JF. CORMIER and M. PICHE (U. Laval) "Stability Analysis of Active Mode-Locking through Loss Modulation"	TABS E. HERNANDEZ-GARCIA, M. AGUADO and M. SAN MIGUEL (U. de les Illes Balears)	TAb6 M J. COLLETT (U. Auckland) "Optical Systems Driven by Inputs with Reduced Intensity Fluctuations: A Possible Master Equation Approach"	TAb7 STEPHEN H. CHAKMAKJIAN, STEPHANOS PAPADEMETRIOU, KARL KOCH and C.R. STROUD. Jr. (U. Rochester) "Near-Threshold Behavior of Multimode CW Dye Lasers with Amplitude Modulated Pump"
		TAb		i 00 a.m.	.1 15 a.m.	11 30 a m.	11 45 a m	12 00 noon	12 15 p m	12 30 p m

LUNCH BREAK

12 45 p m

LANDER

HUBBLE

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LATTIMORE 201	CAVITY QED AND	Chairman: L.M. NARDUCCI TDc1 'R.J. GLAUBER (Harvard U.) "Atoms in Cavities"		TDc2 R.L. !NGRAHAM, M.E. GOGGIN (New Mexico State U.) and P.W. MILONNI (Los Alamos) "Sensitivity to Initial Conditions	In Classical and Quantum Dynamics" TDc3 B. RITCHIE (Lawrence Livermore Natl. Lab.), C.C. SUNG, Y.Q. LI (U. Alabama) and C.M. BOWDEN (Redstone Arsenal) "Quantum and Classical Chaos in a Driven, Undamped	Normnear Oscillator* TDc4 F.T. ARECCHI, A. LAPUCCI, R. MEUCCI (Istituto Nazionale di Ottica, Firenze), J. A ROVERSI (U. Estadual, Campinas), P.H. COULLET (U. Nice) "Experimental Characterization of Shirinikov Chaos by Sta-	TDC5 M. LE BERRE, E. RESSAYRE and A. TALLET (U. de Paris Sud) "Delayed Feed-back Acting as Noise to Induce Phase Transitions"
HOYT HALL	NON-CLASSICAL PHOTON STATISTICS II TDc	Chairman: M.C. TEICH TCc1 REETA VYAS and SURENDRA SINGH (U. Arkansas) "Photon Counting Statistics of Sourcesed I chair.	TCc2 Z. FICEK, R. TANAS and S. KIELICH (A. Mickiewicz U.) "Photon Antibunching in Spontaneous Emission from Two Non- identical Atoms"	TCc3 J.G. RARITY and P.R. TAPSTER (R.S.R.E., Malvern) "Spatially Separated Two Color Photons in Fourth Order Interference"	TCc4 H. RITSCH and P. ZOLLER (U. Innsbruck) "Atomic Systems Driven by Colored Squeezed Light"	TCc5 T.W. HODAPP, M A. FINN, G.W. GREEN- LEES (U Minnesota) and D.A. LEWIS (Iowa State U.) "Observations of Sub-Poisson and Poisson Photon Statistics from the Fluorescence of Individual Barium Atoms"	TCc6 F. DE MARTINI, S. DI FONZO and N. LISI (U. Roma) "Transition from Classi- cal, "Maxwell-Boltzmann", to Quantum, "Bose- Einstein" Partition Statistics by Stochas- tic Splitting of Degenerate Light"
		TBc1 SUNGHYUCK AM and MURRAY SARGENT III (U. Anzona) "Quantum Theory of Multiwave Mixing in a Squeezed Vacuum"	TBc2 JEFFREY H. SHAPIRO, SCOTT R. SHEPARD and NGAI C. WONG (MIT) "Coherent Phase States"	TBc3 SENG-TIONG HO, NGAI C WONG and JEFFREY H. SHAPIRO (MIT) "Self-Focusing Limitations on Squeezed State Generation in Two-Level Media"	TBc4 MARK HILLERY (Hunter College, CUNY) "Sum and Difference Squeezing"	TBc5 S.J.D PHOENIX (Imperral College) and S.M. BARNETT (Oxford U.) "How Strongly Can We Correlate Two Optical Fields?"	TBc6 P K. ARAVIND and JJ GONG (Worcester Polytechnic Inst.) "Higher Order L. Squeezing of Thermal Light through Parametric Amplification"
LASERS IV	Chairman: M. LAX	TAc1 GAUTAM VEMURI and RAJARSHI ROY (Georgia Tech.) "Super-Regenerative Laser Receiver"	TAc2 DIDIER DANGOISSE, DANIEL HENNEQUIN and PIERRE GLORIEUX (U. de Liile) "Non- linear Dynamics of a Laser Containing a Modulated Saturable Absorber"	TAc3 GIAN-LUCA OPPO (Drexel U.) and ANTONIO POLITI (Istituto Nazionale di Ottica, Firenze) "Adiabatic Elimination for Laser Equations via Center Manifold Theory"	TAc4 S. CHOPRA (I.I.T., New Delhi) and SURANJANA RAI (U. Alabama) 'Theory and Photon Statistics of Free Electron Laser"	TAC5 M.W. HAMILTON (U. Strathclyde) "Production of a (Phase) Random- Telegraph Field"	TAc6 R.J.C. SPREEUW and J.P. WOERDMAN (U. Leiden) "Photon Band Structure"
TAC		2:00 p.m.	2:15 p.m.	2:30 p m.	2.45 p.m.	3:00 p.m.	315 p.m.

COFFEE BREAK

3 30 p.m.

LATTIMORE 201

LATTIMORE 201	WDa NONLINEAR OPTICS II	Chalman: N. BLOEMBERGEN	WDa1 'S, AKHMANOV (Moscow State U.) "Spatio-Temporal Structure and Chaos in Nonlinear Optical Systems with Two- Dimensional Feedback"		WDa2 G.S. AGARWAL (U. Hyderabad) and R.R. PURI (BARC, Bombay) "Quantum Theory of Interaction of a Resonant Field with a Nonlinear Medium Modelled as an Anharmonic Oscillator"	WDa3 P. COLET (U. de fes liles Balears). M.C. TORRENT (U. de Barcelona) and M. SAN MIGUEL (U. de les llies Balears) "Relaxation Problems and Lifettmes in Nonlinear Optical Systems"	WDa4 HANS RIIS JENSEN and OLE KELLER (U. Aalborg) "Optical Second-Harmonic Generation from Jellium. The Classical Nonlinear, Nonlocal Response Tensor and the Collective-Mode Pattern"	WDa5 M. NIETO-VESPERINAS and G. LERA (C.S.I.C.) "Depletion Effects in Second Harmonic C. neration with a Partially Coherent Beam"
HOYT HALL	NON-CLASSICAL PHOTON STATISTICS III	Chairman: M.W. SCHUBERT	WCa1 G.S. HOLLIDAY and SURENDRA SINGH (U. Arkansas) "Enhancement of Photon Antibunching in Second Harmonic Generation"	WCa2 RICHARD A, CAMPOS, MALVIN C, TEICH and BAHAA E.A, SALEH (Columbia U.) "Photon-Number Distributions for Homodyne Photomixing at a Lossless Beam Splitter"	WCa3 B. YURKE and M J. POTASEK (AT&T Bell Labs.) "Solution to the Initial Value Problem for the Quantum Nonlinear Schrodinger Equation"	WCa4 H, le PAS de SECHEVAL and C. BENDJA-BALLAH (C.N.R.S.) "Information Performance for a Binary Channel with Photon Counting Detection"	WCas ROBERT G.W. BROWN and MATTHEW DANIELS (R.S R.E., Malvern) "Silicon Avalanche Photodetectors for Quantum Optics Experiments Sub-Geiger Performance"	
LANDER	COHERENCE AND FLUCTUATIONS II WCa		WBa1 JEFFREY H. SHAPIRO, SCOTT R. SHEPARD and NGAI C. WONG (MIT) "A New Number-Phase Uncertainty Principle"	WBa2 L. DOMASH, P. LEVIN (Foster Miller Inc.) and M.A. FIDDY (U. Lowell) "Fluctuation Interferometer as High Angular-Resolution Sensor of Laser Illumination"	WBa3 HIDEYA GAMO (U.C., Irvine) "Phase- Sensitive Light Amplifiers in Stellar Interferometry"	WBa4 EERO TERVONEN, JARI TURUNEN and ARI T. FRIBERG (Helsinki U.) "Transverse Mode Structure of Laser Beams Determined from Spatial Coherence"	WBa5 PENG JIN SHENG (Huazhong Normal U) "Resonance Fluorescence of Atom in Strong Magnetic Field"	
2000		INSTABILITIES AND CHACS II	Chairman: M.C. SCULLT WAAI *N.B. ABRAHAM (Bryn Mawr) and C.O. WEISS (Physicalisch Tech. Bundesanstalt, Braunschweig) *Dynamics of NHs FIR Laser and the Lorenz Model*		WAa2 D.K. BANDY and D.J. JONES (Oklahoma State U.) "Dimensionality Studies of Chaotic Attractors in Laser with Injected Signal"	WAa3 W.J. FIRTH and A. FITZGERALD (U. Strathclyde) "Transverse Modulational Instabilities in Kerr Media"	WAA4 J. O'GORMAN, B J. HAWDON, J. HEGARTY (Trinity College, Dublin), D.M. HEFFERNAN (Nat. Inst. of Higher Education) "Frequency Locking, Quassperiodrcity and Chaos in Machinared External Cavity Injected Lasers"	wAa5 K J. DRUHL and C. WINDENBERGER (Mahanshi International U.) "Self-Observation and Self-Referral in Lasers: An Analysis of the Transition from Quantum to Classical Behavior"
		WAa	9:00 a.m.	9:15 a.m.	9.30 a.m.	9:45 a.m.	10:00 a.m.	10:15 a.m.

COFFEE BREAK

10:30 a.m.

LATTIMORE 201	FUNDAMENTAL TESTS OF QUANTUM MECHANICS AND LOCALITY	Chairman: E.C.G. SUDARSHAN	WDb1 D.J. HEINZEN, J.J. BOLLINGER, WAYNE M. ITANO, S.L. GILBERT, C.J. WINELAND (NIST, Boulder) "Test of the Linearity of Quantum Mechanics by RF Spectroscopy of the ⁹ Be ⁺ Ground State"	WDb2 M.O. SCULLY (U. New Mexico) and K. WODKIEWICZ (Warsaw U.) "On the Quantum Malus Law for Photon and Spin Quantum Correlations"	WDb3 M.D. REID (U. Walkato) and P.D. DRUMMOND (U. Queensland) "Optical Einstein-Podolsky-Rosen Correlations"	WDb4 J.D. FRANSON (Johns Hopkins U.) "A New Test of Bell's Inequality Using Optical Interference"	WDb5 SHANG SONG, CARLTON CAVES (U. Southern California) and BERNARD YURKE (AT&T Bell Labs.) "Schrödinger Kittens from Optical Back-Action Evasion"	WDb6 W.M. de MUYNCK and H. MARTENS (Eindhoven U.) "Optical Experiments Illustrating the Significance of the Bell Inequalities"
ноут нагг	COOPERATIVE EFFECTS II WDb	Chairman: S. MUKAMEL	WCb1 P.D. DRUMMOND, S.J. CARTER (U. Queensland), J.D. HARVEY and R. LEON-HARDT (U. Auckland) "Superfluorescent Generation of Mode-Locked Pr Pulses"	WCb2 R.R. PURI, R.K. BULLOUGH and N. NAYAK (UMIST) "Collective Dynamical Statistical and Equilibrium Properties of N Rydberg Atoms Making 2-Photon Transitions"	WCb3 T.A.B. KENNEDY and D.F. WALLS (U. Auckland) "Optical Spectra of a Strongly Coupled System of Atoms in a Cavity Driven by Squeezed Light"	WCb4 JAGDISH RAI, RAMARAO INGUVA and CHARLES M. BOWDEN (Recisione Arsenal) "Quantum Statistical Analysis of Super-fluorescence and Amplified Spontaneous Emission in Dense Atomic Systems"	WCb5 A.T. ROSENBERGER (Southern Methodist U.) "Amplitude and Phase Dynamics of Superradiant and Raman Pulse Trains"	WCb6 MUNAWAR KARIM (St. John Fisher College) "Metric-Perturbed Shifts in Superradiant States"
LANDER	TIONS II WCb	7	V (USSR Acad of Synchroni- sitions"		., Wien) "A New Non- Treating Interac- hation Ffeld"	ZAMA, QILIN WU and Dregon) "Experimental nce Spectrum Emitted nder Strong Bichro-	J H. EBERLY (U. In the Theory of e-Wave Pump-Probe	HERFORT (Tech U. Exponential Decay iission by a Two- n"
	WBb ATOM-FIELD INTERACTIONS II	Chairman: P.R. BERMAN	WBb1 *V, CHEBOTAYEV (USSR Acad of Sciences, Novosibirsk) "Synchronization of Quantum Transitions"		WBb2 J. SEKE (Tech. U., Wien) "A New berturbative Method for Treating Interactions of Atoms with Radiation Field"	WBb3 YIFU ZHU, A. LEZAMA, OILIN WU and T.W. MOSSBERG (U. Oregon) "Experimental Study of the Fluorescence Spectrum Emitted by Two-Level Atoms under Strong Bichromatic Excitation"	WBb4 H. HUANG and J H. EBERLY (U. Rochester) "Lineshape in the Theory of Phase-Dependent Three-Wave Pump-Probe Interactions"	WBb5 J SEKE and W. HERFORT (Tech U. Wien) "Deviations from Exponential Decay in the Spontaneous Emission by a Two-Level Hydrogenic Atom"
3188ITH	INSTABILITIES AND CHAOS III	Cholomon. N B ARBAHAN	WAb1 J.D. PARK, D.S. SEO and J.G. McINERNY (U. New Mexico) "Quasi-Subharmonic Bifurcation Routes to Chaos in External Cavity Semiconductor Lasers"	WAb2 DAAN LENSTRA (Eindhoven U.) and JULIUS S. COHEN (Phillips Research Labs.) "Spectral Analysis for the Coherence Collapsed Diode Laser"	WAb3 HERBERT G. WINFUL (U. Michigan) "Instabilities and Chaos in Phase-Locked Semiconductor Laser Arrays"	WAb4 GOVIND P. AGRAWAL (U. Rochester) "Cooperative Modulation Instability in Dispersive Nonlinear Media"	WAb5 DANIEL J. GAUTHIER, MICHELLE S. MAL-CUIT and ROBERT W. BOYD (U. Rochester) "Multistability and Chaos in Counter-propagating Laser Beams"	WABS F. MITSCHKE, C. BODEN, C. HENNING and I. ROLOFF (U. Hannover) "Observation of Chaos in a Passive Nonlinear Resonator"
	WAb		11:00 a.m.	11:15 a.m.	11:30 a.m.	11:45 a.m.	12.00 noon	12:15 p.m.

LUNCH BREAK

12:30 p.m.

HUBBLE

LATTIMORE 201

HOYT HALL

MULTIPHOTON PROCESSES I (Jointly with SILAP) WDc LIGHT SCATTERING		WCc1 **L.A. LOMPRÉ (C.E.N. de Saclay) "Very High Order Harmonic Conversion flo de Janeiro) **Tunneling and Resonances of Intense YAG Laser Radiation in Rare in Mie Scattering**		WCc2 *B.W. SHORE and K.C. KULANDER (Lawrence Livermore Natl. Lab.) and EMIL WOLF (U. Rochester) "Scattering "Generation of Optical Harmonics by of Electromagnetic Fields of Any State Intense Pulses of Laser Radiation: A Theoretical View"	WDc3 EMIL WOLF (U. Rochester) "On the Possibility of Generating Doppler-like Frequency Shifts of Spectral Lines by Scattering from Space-Time Fluctuations"	WCc3 *H.R. REISS (American U.) "Rela-
WCc MULTIPHOTON PRO	Chairman: P.W. MILONNI	WCc1 'L.A. LOMPRÉ "Very High Order Har of Intense YAG Laser Gases"		WCc2 *B.W. SHORE and K.C. KULA! (Lawrence Livermore Natl. Lab.) "Generation of Optical Harmonics by Intense Pulses of Laser Radiation: A Theoretical View"		WCc3 *H.R. REISS (American
WBc ATOM-FIELD INTERACTIONS III	Chairman: R. CHIAO	WBc1 K. YAMADA and P.R. BERMAN (New York U.) "Macroscopic Quantum Jumps from a Two-Atom System"	WBc2 JAN GROCHMALICKI and MACIEJ LEWEN-STEIN (Polish Acad. of Sciences) "Detection of Decay Processes and Cavity Fields by Means of Quantum Jump Statistics"	WBc3 K. WODKIEWICZ and N.H. CONG (Warsaw U.) "Optical Resonance Equations in the Presence of Strong Radiation and Shot- Noise Collisions"	WBc4 WILHELMUS M. RUYTEN (U. Tennessee Space Institute) "Resonance Behavior of a Two-Level Atom Driven by Amplitude- or Frequency- Modulated Fields"	WBc5 MARTIN WILKENS (Inst. for Theor, Phys., Warsaw) and KAZIMIERZ RZAZEWSKI
INSTABILITIES AND CHAOS IV	Chairman: P. MANDEL	WAc1 L.M. HOFFER and N.B. ABRAHAM (Bryn Mawr) "Stability Analysis of a Model for a Homogeneously Broadened Bidirec- tional Ring Laser"	WAc2 R.G. HARRISON, WEIPING LU and P.K. GUPTA (Heriot-Watt U.) "Origin of Pulsating Instabilities and Chaos in Raman Lasers"	WAc3 U. HUBNER, W. KLISCHE (Phys. Tech. Bundesanstalt, Braunschweig) and N.B. ABRAHAM (Bryn Mawr) "Dimension Calculations for Comparison of Lorenz-Like Laser Behaviour with the Lorenz Model"	WAC4 FRANCESCO A. NARDUCCI, JOHN D. KOHLER and GIAN-LUCA OPPO (Drexel U.) "Instabilities of a Coupled Cavity Laser"	WAc5 M. ARJONA, R. CORBALAN (Aut. U. de Barcelona), F. LAGUARTA, J. PUJOL
WAC		2:00 p.m.	2:15 p.m.	2:30 p.m.	2:45 p.m.	3:00 p.m.

WBc6 BENJAMIN FAIN (Tel-Aviv U.)
"Spontaneous and Induced Emission of Soft
Bosons: Exact Non-Markovian Solution"

COFFEE BREAK

3:30 p.m.

3:15 p.m.

WDc5 ALBERT M.F. LAU and ROGER L. FARROW (Sandia Nat). Lab., Livermore) "Nonlinear Gaussian Expansions of Stochastic Processes: Super-Gaussian Statistics of n-Harmonic Fields"

LATTIMORE 201

	HUBBLE	LANDER	НОУТ НАLL	LATTIMORE 2
797	INSTABILITIES AND	ATOM-FIELD INTERACTIONS IV	WCd MULTIPHOTON PROCESSES II (Jointly with SILAP) WDd POSTDEADLINE PAPERS	POSTDEADLINE PAPERS
		Chalrman: T. DOHNALIK	Chairman: R.L. McCRORY	Chalman: C.R. STROUD, Jr.
4:00 p.m.	WAd1 SHAWN D. PETHEL (U. Alabama) and CHARLES M. BOWDEN (Redstone Arsenal) "Fractal Properties of the Rotating van der Pol Oscillator with Phase"	WBd1 JASPER KNOESTER and SHAUL MUKAMEL (U. Rochester) "Inhibition and Scaling of Spontaneous Decay Using Polaritons"	WCd1 *M.V. FEDOROV (USSR Acad. of Sciences) "Coherence and Interference In Photoionization of Rydberg Atoms"	
4:15 p m.	WAd2 N.P. PETTIAUX, LI RUO-DING and PAUL MANDEL (U. Libre de Bruxelles) "Instabilities of the Degenerate Optical Parametric Oscillator"	WBd2 V, FINKELSTEIN (New York U.) "Excitation into a Quasicontinuum by a Fluctuating Laser Field"		
4:30 p.m.	WAd3 W. FORYSIAK, J.V. MOLONEY and R.G. HARRISON (Heriot-Watl U.) "Chaotic Dynamics of Optically Pumped Lasers"	WBd3 R.R. PURI and AMITABH JOSHI (BARC, Bombay) "On the Characteristics of Rabi Oscillations in a Coherently Prepared Two-Level Atom in the Binomial State of the Field"	WCd2 ¹P.H. BUCKSBAUM, A. ZAVRIYEV and D.W. SCHUMACHER (AT&T Bell Labs.) "The Hydrogen Molecule in Intense Laser Light"	
4:45 p.m.	WAd4 LEE W. CASPERSON and MANUELA FE H. TARROJA (Portland State U.) "Models and Approximations for Instabilities in Standing-Wave Lasers"	WBd4 G. KURIZKI (Weizmann Inst. of Science) "Field-Matter Interactions in Photonic Bandgaps"		
5:00 p.m.	WAd5 G.E. JAMES, E.M. HARRELL II and RAJARSHI ROY (Georgia Tech.) "Inter- mittency in Intracavity Doubled YAG Lasers"	WBd5 S.V. LAWANDE, R.D'SOUZA and A.S. JAYARAO (BARC, Bombay) "Transient Squeezing and Time-Dependent Spectra of a Strongly Driven Three-Level Atom Undergoing Quantum Jumps"	WCd3 M. SANJAY KUMAR and G.S. AGARWAL (Hyderabad U.) "Diagrammatic Methods for Nonlinear Response of a System Dressed by Resonant External Fields"	
5:15 p.m.		WBd6 DAVID COHEN and LLOYD W. HILLMAN (Cornell U.) "Phase Fluctuation and Damping in Two-Level Optical Resonance"	WCd4 W. LEONSKI and R. TANAS (A. Mickiewicz U.) "Population Trapping Effect for System with Double Autoionizing Levels"	
5.30 p.m.		WBd7 E. OZIZMIR, W.M. SCHREIBER, A.M. LEVINE (College of Staten Island) "Pump-Probe Lineshape Formulas with Damping"		

CLOSE OF CQO6

6:00 p.m.

LATTIMORE 201

WDd POSTDEADLINE PAPERS

Chairman: C.R. STROUD, Jr.

- 4.00 pm WDdl J.V. HAJNAL, K.G.H. BALDWIN, P.T.H. FISK, H.-A. BACHOR, G.I. OPAT (Austral. Nat. U., Canberra) "Reflection and Diffraction of Sodium Atoms by an Evanescent Laser Light Field"
- 4.15 pm WDd2 G. BABST, G. REMPE, F. SCHMIDT-KALER and H. WALTHER (U. München and Max Planck Inst.) "Photon statistics in the One-Atom Maser"
- 4.30 pm WDd3 Z.Y. OU, L.J. WANG, X.Y. ZOU and L. MANDEL (U. of Rochester) "Optical Phase Information due to the Vacuum in Two-Photon Down-Conversion"
- 4.45 pm WDd4 H. RISKEN and J. EISELT (U. Ulm) "Quasiprobabilities for the Jaynes-Cummings Model with Damping"
- 5.00 pm WDd5 A. DUNCAN, R. MAWHINNEY and P. STEHLE (U. PITTSBURGH)
 "Monte Carlo Simulation of Real-time Quantum Processes"
- 5.15 pm WDd6 S.R. FRIBERG (NTT Basic Research Labs, Tokyo) "Soliton Collisions for Quantum Nondemolition Measurement of Photon Number: The QND Soliton Interferometer"

POSTER SESSION

May Room, Wilson Commons

Wednesday, June 28, 1989, 10:30 a.m. - 4:00 p.in.

- P1 V.A. ANDREEV and P.B. LERNER (Lebedev Phys. Inst., Moscow) "Supersymmetry in the Jaynes-Cummings Model"
- P2 S. CHELKOWSKI and A.D. BANDRAUK (U. de Sherbrooke) "Coherent Propagation of Ultrashort Laser Pulses in Multilevel Medium"
- P3 K. HOLLIDAY and N.B. MANSON (Australian Natl. U., Canberra) "Raman Heterodyne detection of Electron Paramagnetic Resonance"
- P4 F.-L. HONG, M. TACHIKAWA, K. TANII and T. SHIMIZU (U. Tokyo) "Laser Instabilities and Chaos in infrared Gas Lasers with Saturable Absorber"
- P5 S.V. LAWANDE, Q.V. LAWANDE and B.N. JAGATAP (Bhabha Atomic Research Centre, Bombay) "Quantum Jumps in a system of Three-Level Atoms"
- P6 X. LI and B. SU (Tianjin U.) "Higher Order Squeezing of Quantum Electromagnetic Fields in Two-Mode Squeezed States"
- P7 K.T. LU and J. ZHANG (U. of Science & Technology, Beijing) "Observation of High Efficiency VUV Stimulated Radiation based on Laser Induced Cooperative Excimer Complex Formation in a Dense Mixture of Mg and Ar Gas"
- P8 K.T. LU (Atomic Engineering Corp., Gaithersburg) "On the Theory of Laser Induced Cooperative Excimer Complex Formation"
- P9 M.A.M. MARTE, H. RITSCH and D.F. WALLS (U. Waikato, U. Innsbruck, U. Auckland) "Squeezed Reservoir Lasers"
- P10 H. RITSCH, TH. HASLWANTER and P. ZOLLER (U. Innsbruck) and J. COOPER (J.I.L.A., Boulder) "Laser Noise Induced Population Fluctuations in Two-Level Systems"
- P11 P.A. RODGERS (Rutherford Appleton Lab.) and S.SWAIN (Queen's U. Belfast) "Resonance Fluorescence with Square Pulses an Explanation for Asymmetries and Extra Peaks"
- P12 M.L. TER-MIKAELIAN (Armenian Acad. Sciences) "Laser Beam Propagation through a Resonant Medium"
- P13 K. WYNNE, M. MULLER and J.D.W. VAN VOORST (U. Amsterdam) "High Time Resolution with Incoherent Light in the Raman-Fringe-Decay.
- P14 J.J. SANCHEZ-MONDRAGON (Centro Invest. Opt., Leon, Mexico) "Thermal Revivals in the Jaynes-Cummings Model"
- P15 X. CHEN, V.L. TELEGDI and A. WEIS (Inst. fur Hochenergiephysik, Zurich) "Non-Linear Resonant Faraday Effect in Cesium: A Quantitative Comparison between Experiment and Theory"

- P16 D.R. MEACHER, M. KACZMAREK, P. EWART and M. BELSLEY (Clarendon Lab., Oxford) "Laser Bandwidth and Atomic Relaxation Effects on DFWM with Broad Bandwidth Pulsed Lasers"
- P17 S.M. SKIPPON, P. SNOWDON and P. EWART (Clarendon Lab., Oxford) "Improved Noise Performance in Single Shot Cars Using a Modeless Laser"
- P18 J.R. KUKLINSKI (Polish Academy of Science) "Generation of Fock States of the Electromagnetic Field in a High-Q Cavity Through the Anderson Localization"
- P19 Y. ZHU and T.W. MOSSPERG, M. LEWENSTEIN and J.R. KUKLINSKI (Polish Academy of Science) "Strongly Driven Two-Level Atoms as a Medium for a Multi-Photon Laser"
- P20 K. ARNETT, R. RYAN, M.W. HAMILTON, J. BRANDENBERGER, T. BERGEMAN, H. METCALF and S.J. SMITH (JILA, Boulder) "Hanle Effect in Spectrally Broadened Light"
- P21 N. LU (U. of New Mexico) "Lifetime of a Pure Number State in a Cavity"
- P22 Y. SHEVY (Cal. Tech.) "Cooling Atoms with Extraresonant Stimulated Emission Below the Doppler Limit"

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REGISTRATION LIST

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CARROLL	CLARK E	UNIVERSITY OF NOCHESTER	BEPT OF PAYSICS & ASTON	ROCHESTER, MY	14627	ysa
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COHEN	BAVID	CORNELL UNIVERSITY	629 HIGHLAND DRIVE	ITHACA. NY	14850	
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DALTON	BPYAN J	UNIVERSITY OF QUEENSLAND	PHYSICS DEPT	BRISBANE, OD	4067	AUSTR4_1-
DAVIS	WILLIAM	UNIVERSITY OF ROCHESTER	407 UNIVERSITY PARE	ROCHESTER, NY	14620	459
DE BRITO	ADELSINDO	UNIVERSITY OF ARTANSAS	PHYSICS DEPARTMENT	FAYETTEVILLE, AR	72701	¥54
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DRUMMOND	PETER	UNIV OF BUEEKSLAND	34 ZAMBESI STREET	RIVER HILLS	24074	AUSTRALIE
DANIA	JAMES E	EASTMAN EDDAK CO	440 POFFALO ROAD	ROCHESTER, MY	14652	USA
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FABINY	LARRY	GEORGIA TECH	SCHOOL OF PHYSICS	ATLANTA, GA	30332 85014	
FAIH	Benjakin		1420 E BETHANY HR PD 2	GRONIHGEN	9747 AG	usa Netherlanie
LEBAEBBY LEBAEBBY	HERZER Highari a	UNIVERSITY OF GROWINGEN	NYEMBORG 18 BEPT OF ELECTRICAL ENG	LOWELL. HA	01824 A	_
FIDDY Findelstein	A JAKAIN OTMINATU	UNIVERSITY OF LOWELL NEW YORK UNIVERSITY	4 WASHINGTON PLACE	HER ADSK' MA	10003	459 455
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COO6 REGISTRATION LIST

LASTNA*E	FIRSTNAN	ORGANIZA	APPRESS1	ADDRESS2	MAILEGRE	13. 8 7\$1
FINKELSTEIN	TEN	CORNELL UNIVERSITY	CHESS CORNELL UNIV	ITHACA,NY	14855	ES#
F]RTH	WILLIAM J	UNIVERSITY STRATHCLYDE	DEPT OF PHYSICS	SLASSON	840NG	<u> </u>
FDLEY	JOHN	RISSISSIPPI STATE UNIV	BRANER 5167	HISS STATE, HS	39762	154
FORSIAY		HERIOT-MATT UNIVERSITY	PHYSICS DEPARTMENT	EDINBURGH		-;
FORYSIAN	MLADEX	HERIOT-WATT UNIVERSITY	PHYSICS DEPARTHENT	EDINBURGH -	EH14	N.
FOUSERES	ahbre	UNIVERSITY OF ROCHESTER	239 APT C, BUINDY ROAD	ROCHESTER, NY	14623	USA
FRANKEN	PETER	UNIVERSITY OF ARIZOMA	OPTICAL SCIENCE CENTER	TUESON, AZ	85721	AZIJ
Fransbn	JAKES D	JOHNS HOPKINS UNIV, APL	JOHNS HOPEINS RE	LAUREL, HD	20707	AZU
FREEDHOFF	HELEN S	YORE UNIVERSITY	PHYSICS, 4700 REELE ST	TORONTO, ON	833 1P3	[anl][
FRIBERB	STEPHEN	NIT BASIC RESEARCH LAB	3-9-11, WIDORICHO	TOXYO	155	Japah
FPIBERG .	API	HELSINKI UNIV OF TECH	DEPT OF TECHNICAL PHYSI	ESP00	22150	FINLAN
FRIED	LAURENCE	UNIVERSITY OF ROCHESTER	115-4 RANDR PARENAT	ROCHESTER, NY	14620	USA
GADOPSVI	VOJCIECHI	UNIVERSITY OF OREGON	PEFT OF PHYSICS	EUGENE, OR	97405	USA
BAETA	ALEXANDER	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14627	USA
BAGE	EDWARD	UNIVERSITY OF ROCHESTER	120 FURLOWS STREET	ROCHESTER, NY	14623	USA
6AJD4	Harius?	UNIVERSITY OF ARIZONA	BEPARTHENT OF PHYSICS	TUESON, AZ	85721	USA
GAL VEZ	ENPIQUE J	COLGATE UNIVERSITY	BEPT OF PHYSICS	HAMILTON, MY	13346	USA
BANLIEL	AVSHALDM	INSTITUTE OF OPTICS	3100 ELNYOOD AVENUE	ROCHESTER, NY	14618	420
SANO	HIDETA	UNIVERSITY OF CALIFORNIA		IRVINE, CA		USA
640	JUN YUE	JILIH UNIVERSITY		CHARGENON		CHINA
BARDNER	CPISPIN	UNIV OF WAITATO	PHYSICS BEPT	HAMILTON	14627	NEW ZEALA
SARRAWAY	BARRY M	RESEARCH INST THEOR PHYS		HELSINKI	00170	
GAPRETT	WILLIAM	DAKRIDGE MATIONAL LAB	\$L96 5500, MS 6378	OAF PIPGE. IN	37931	US4
BAUTHIER	DANIEL J	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14623	USA
BENTILE	THOMAS R	NIT	26-229	CAMBRIDGE, MA	02139	USA
SEORGE	NICHOLAS	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14627	
EERRY	CHRIS	ST. BONAVENTURE	1299 OLEAN PORTVILLE RD		19788	USA
GIACOBING	ELISABETH	UNIVERSITE PARIS &	LAD SPECTRO HERTZIENNE	PAPIS	75252	FRANCE
610661A	ROBERT S	WIDENER UNIVERSITY	the election new sternic	CHESTER, PA	19013	USA
GLAUBER	POY J	HARVARD UNIVERSITY	LYNAN LABORATORY	CAMBPIDGE, MA	02138	459
CLAUBER		HARVARD UNIVERSITY	LYNAN LABORATORY	CANIFIDER NA	- 62138	<u> </u> }
erasienx	PIERRE	UNIVERSITE DE LILLE I	Linus Cushvaldes	VILLENEUVE P'ASCO		FOAKEE
SLORIEUX	PIERRE	UNIVERSITE DE LILLE I	MILLENEUVE D'ASCO CEDEX	ATCTCHERAT & HOLE	59655	FRANCE
60LDBERG	PHILIP	CITY UNIV OF NEW YORK	199 CHESTMUT STREET	ENGLEWOOD, NJ	07631	420
600DRAN	NATTHEN	BELL COMMUNICATIONS	26 ESTATE ROAD			429
SORI		UNIVERSITY OF ROME	DIP.FISICA UNIV PLE AND	BELLE MEAD, NJ ROME	08502	
6RAY	FRANCO		SCHOOL OF PHYSICS		00185 70772	ITALY USA
GREEN	SEORGE W	GEORGIA TECH Brexel University	39 CRESSIONT AVENUE	ATLANTA, GA	30332	
GREENHOOD	CHARLES K			BLACKBOOD, NJ	08012	USA USA
GR]RH	WILLIAM 6	UNIVERSITY OF ROCHESTER	DEPT OF PHYSICS/ASTRON ETH-HOENSGERDERG HPT	POCHESTER, NY	14627	US4
	RUDOLF	ETH ZURICH		ZURICH	8063	SUITZERLA
HAJNAL HAMILTON	MILLODAN H	BUTH OF CTRATUPIVES	95 BOOFORD ROAD	FONDON	WY118EH	-
HARIETON	HURRAY W	UNIV OF STRATHCLYDE	PHTS BEPT, 107 ROTTENRON		640N6	l K
HAPRISON	ROBERT 6	HERIOT-WATT UNIVERSITY	PHYSICS BEPAPTMENT	EDINDURGH	1000	ii ii
HARTHANN CATTA	SVEN P	COLUMBIA UNIVERSITY	PHISICS BEPT	NEW YORK, NY	10025	USA
HATERA WANE	MANI ID	NATE RESEARCH COUNCIL	151 DI ELETTRONICA QUAN		50127	llat.
HYNZ	JOSEPH	RENSSELAR POLYTECH INST		TROT, NY	12180	USA
HANDON	BRENDAN	IRINITY COLLEGE	PHYSICS DEPARTMENT	BUBLIN BOWNED CO	2	fi k
HEINZEN	DAVIEL J	MIS:	325 BROADWAY RS 576.11	BOULDER, CO	80303	V54
HEFEEBIER	JEROME A	NIST	325 BROADBAY 576.10	BOULDER, CO	80303	420
HILLERY	MUSE	HUNTER COLLEGE OF CUNT	DEPT OF PHYSICS	NEW YORK, NY	10021	95¢
HILLMAN HIDE	11010	UNIVERSITY OF ALABAMA	205 RIDGEDALE ROAD	ITHACA, NY	14850	131 131
P. [1]	\$	ST JOHN FISHER COLLEGE		BOCHESTER, NY	14618	459

REGISTRATION LIST

LASTNAME	FIRSTMAN	ORGANIZA	ADDRESS1	n; dress2	MAILCODE	CONHIBA
но	SENG-TION	ATET BELL LABORATORIES	600 HOUNTAIN AVENUE	MURRAY HILL, HJ	07974	USA
HODAPP	THEODORE	HANLINE UNIVERSITY	PHYSICS BEPT	ST PAUL, MR	55104	USA
HOFFER	LOIS M	BRYN HAWR COLLEGE	DEPT OF PHYSICS	BRYN HAVR, PA	19010	USA
HOLLIDAY	KEITH	AUSTRALIAN MATE MATE	LASER PHYSICS CENTER	CANBERRA	2601	AUSTRALIA
HOM6	FENG-LEI	TORYO UNIVERSITY	1-3-1, MONSO, BENETIO-EU		113	JAPAN
HORNE	RICHAEL		STONEHILL COLLEGE	MORTH EASTON, HA	02357	USA
HUANS	JIAMING	NORTHWESTERN UNIVERSITY	2215 WESLEY AVENUE	EVANSTON, IL	60201	USA
HUANS	HU	UNIVERSITY OF ROCHESTER	DEPT PHYSICS & ASTROLOG	-	14627	USA
HUEBNER	UDO	PHYS TECH BUNDESANSTALT	DOMESALLEE 100, 4.42	BRAUMSCHEELG	3300	FEB REP GEF
HUSHEY	BARBARA	nit	24-214	CAMBRIDGE, HA	02139	USA
HUTTHER	BRUMO	TECHNION	BEPT OF PHYSICS	HAIFA	32000	ISRAEL
ITANO	NATHE R	HIST	325 BROADWAY STREET	BOULDER, CO	80303	USA
JAKEHAN	ERIC	RSRE	ST AMMERS ROAD	MALVERN, MORCS	#R143P5	UK
JAMES	DANIEL F V	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NT	14627	USA
JAMES	GLENN	GEORGIA TECH	SCHOOL OF PHYSICS	ATLANTA, SA	30332	USA
Javahainen	JUHA	UNIVERSITY OF COMMETICUE	BEPT OF PHYSICS, U-46	STORRS, CT	06269	USA
JENSEN	HANS	UNIVERSITY OF AALBORG	PRITOPPIDANSTRACDE 101	AALBORG	9220	Behart
JONES	DARLENA	OXLAHONA STATE UNIV	111 HUSBAND BC	STILLWATER, OF	74074	USA
KACZNAREK	MALSORZATA	OXFORD UNIVERSITY	CLAREIGON LABORATORY	OXFORD	0114 BH	UK
RALYANIWALLO	NAUZER	RENSSELAR POLYTECH INST	PHYSICS DEPARTMENT	TROY, MY	12180	USA
KARIH	MUNAYAR	ST JOHN FISHER COLLEGE	BEPT OF PHYSICS	ROCHESTER, BY	14618	USA
KAUDERER	MARK	UNIVERSSIT OF TEXAS	DIVISION OF ENGINEERING	SAN ANTONIO, TI	78285	AZU
KAURANEN	MARTII	UNIVERSITY OF ROCHESTER	125 UNIVERSITY PARK	ROCHESTER, HY	14620	usa
RELLER	OLE	UNIVERSITY OF AALBORG	BLESDALSPARKEN 34	AALBORG	9000	BEMMUSE
KENHEDY	T A BRIAN	UNIVERSITY OF AUCKLAND	DEPT OF PHYSICS	AUCKLAND		MEN SEUTAN.
EIR	YOUN6	UNIVERSITY OF MARYLAND	DEPT OF PHYSICS	COLLEGE PARK, NO	20742	. USA
KIMBLE	H. JEFFREY	CALTECH	PHYSICS BEPT, 12-33	PASADENA, CA	91125	AZU
KNIGHT	PETER	IMPERIAL COLLEGE	PRINCE CONSBR ROAD	FONDOR	\$87 287	ij K
. KNOESTER	Jasper	UNIVERSITY OF ROCHESTER	CHEMISTRY DEPT	ROCHESTER, NY	14627	USA
ROCH	KARL	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14627	USA
10/ fiam	ABRAHAR	WEIZHAMM INSTITUTE	BEPT OF CHERICAL PHYSIC			ISRAEL-
KOFRAN	ABRAHAN	WEIZHAMM INSTITUTE	BEPT OF CHENICAL PHYSIC		50125	ISRAEL
KOHLER	JOHN D	PREXEL UNIVERSITY	3701 BARING STREET	PHILADELPHI, PA	19104	AZU
KRASINSKI	JER21	ALLIED SIGNAL INC	PO BOX 1021R	MORRISTOWN, NJ	07080	USA
KRATEL	AXEL	CALTECH	HS 12-33	PASABEHA, CA	91125	USA
KROLIKOVSKII	WIESLAW Z	TUFTS UNIVERSITY	HALLISAN HALL, 161 COLL	•	02155	USA
RURLINSKI	JAN RAFAL	POLISH ACADEMY SCIENCES	AL LOTHIEGY 32/44	WARSAN	92 668	POLAND
KULANBER	REMNETH C	LLNL	P8 99X 808, L-439 -	LIVERRORE, CA	94550	450
TUNAR	PREM	NORTHWESTERN UNIVERSITY	EECS BEPT, 2145 SHERIBAN	•	60208	USA
EURAR	SANJAY	UNIV OF RYDERABAD	SCHOOL OF PHYSICS	HYDERABAD, AP	87108	INDIA
KUN CHI	PENG	CALTECH	BAIL CODE 12-33	PASADENA, CA	91125	USA
EU0	SHIHJONG	UNIVERSITY OF SHEEPH	BEFT OF PHYSICS	EUGENE, CR	97405	USA
EURIZEI	GERSHON		DEPT OF CHENICAL PHYSIC		76100	ISRAEL
KYROLA	ERKKI	FINALSH RETERROLBSICAL	VESALIOTIE 3 8 07	RELSINAI	00430	FINLAND
LANE	ALISTAIR	UNIV OF SOUTHERN CALIF	CTR FOR LASER STUDIES	LOS ANGELES, CA	10089	USA FER DED CC:
LANGE	NULFHARD Toba c	INST ANGENANTE PHYSIL	CORREMSSER 214	RUENSTER MATANAN MT	4400 07747	FED REP GEF USA
LARCHUY	TOPP 5	COLORBIA UNIVERSITY	218 WELLINGTON PLACE	HATAVAN, HJ	94551	USA
LAU	ALBERT CTAN: CV	CERT THROUTH VIERES	DUTEL TOC WALL	LIVERMORE, CA ITHACA, NY	14853	USA
LAU	STANLEY N	CORNELL UNIVERSITY	PHILLIPS HALL	SUMMIT, MJ	07901	USA
LAX LC DCDDC	n Martine	CITY COLLEGE OF NEW YORK	BAT 213	ORSAY	91405	FRANCE
LE BERRE LE PAS DE SECHEV	HEFHAN	LABORATOIRE DE PPR	48 BOULEVARD JOURDAN	PARIS	75014	FRANCE
TE LMS AE SENVEA	attuna	PARIS XI	TO BUULCTRES SUURSEN	rna i J	7 7 7 7 7	redu.

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C006 REGISTRATION LIST

LASTHAME	FIRSTNAM	ORGANIZA	ADDRESS1	ADDRESS2	MATECODE	ICINIBA
LEE	CHIN6	ALABAMA A&M UNIVERSITY	3213 HASTINGS ROAD	HUNTSVILLE, AL	35801	USA
LEE	SEUNGHEE	MORTHWESTERN UNIVERSITY	800 HIMMAN AVE. \$609	EVANSTON, IL	60202	t'SA
LENSTRA	DAAN D	EINDHOVEN UNIV OF TECH	DEPT OF PHYSICS POB 513	EIHDHOVEN	5600	HETHERLAND
LETT	PAUL 3	MATE INST OF STOS & TECH	PHYSICS B160	GAITHERSBURG, ND	20899	USA
LEVENSON	HARC B	IBN RESEARCH BIVISION	#31/8020, 650 MARRY RD	SAN JOSE, CA	95120	USA
LEVENSTEIN	MACIEJ A	NARVARD UNIVERSITY	24 TOFTS STREET	CARBRIDGE, HA	02139	USA
LEZANA	ARTURO A	UNIVERSITY OF OREGON	122 SCIENCE 1	EUGENE, DR	97405	420
LI	RUO DING	UNIV LIBERTE BRUXELLES	PLATHE C P 231	BRUSSELS	1050	BEL6108
LIN	HONS	DRYN HANR COLLEGE	DEPT OF PHYSICS	BRYH HABY, PA	19010	USA
LINDBERG	MAREUS	UNIVERSITY OF ANIZONA	SPTICAL SCIENCES CTR	TUCSON, AR	86721	USA
LIPPI	SIAN LUCA	BRYN HAWR COLLEGE	DEPT OF PHYSICS	BRYN HAWR, PA	19010	USA
LONPRE	L	SPAS/CEN DE SACLAY		SIF SUR TVETTE	91191	FRANCE
LOUDON	RODNEY	ESSEX UNIVERSITY	PHYSICS BEPT	COLCHESTER	C07 650	U #
LU	NING	UNIVERSITY OF NEW REXICO		ALBUQUERQUE, HR	87131	USA
LU .	I I	ATORIC ENGINEERING CORP	PO BOX 3342	GAITHERSBURG, MD	20878	USA
LUGIATO	LUISI	POLITECNICO DE TORIMO	DIPARTIMENTO DI FISICA	TORINO	10129	ITALY
				BOZERAN, MT	59717	USA
MACPHERSON	BAVID	MONTANA STATE UNIVERSITY	617 RICHARDSON ROAD	*		USA
MAGILL	BRIAN	UNIVERSITY OF ROCHESTER		ROCHESTER, NY	14623	usa Usa
MAKI	JEFFREY	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14620	
MALCUIT	MICHELLE	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14627	USA
MALLALIEU	HARK	UNIVERSITY OF ROCHESTER	2 LILAC BRIVE	ROCHESTER, NY	14620	USA
MANDEL	PAUL	UNIV LIBERTE BRUXELLES	PLAINE C P 231	BRUSSELS	1050	BELGIUM
MANDEL	LEGNARD	UNIVERSITY OF ROCHESTER	BEPT OF PHYSICS/ASTRON	ROCHESTER, MY	14627	USA
Mania	AARON S	DREXEL UNIVERSITY	1403 N 75TH STREET	PHILADELPHIA, PA	1915!	USA
MANSON	PETER	AUSTRALIAN MATIONAL UNIV		CAMBERRA, ACT	2601	AUSTPAL 14
HANTEGNA	ROSARIO	UNIVERSITAT DI PALERBO	VIA ARCHIRAFI 36	PALERMO		- ITALY
HANTEGNA	ROSARIO	UNIV DI PALERHO	VIA ARCHIRAFI 36	PALERNO	90123	- ITALY
MARJORIBANKS	ROBIN	UNIVERSITY OF TOROWID	40 ST GEORGE STREET	TORONTO, ONTARIO	MSS 1A7	CANADA
MARIE	HONIKA	UNIVERSITY OF INDISTRUCT	INST FOR THEOR PHYSIK	IMASBRUCK	6020	AUSTRIA
RATTAR	FARRES	NEW YORK CHIVERSITY	PHYSICS DEPARTMENT	HEN YORK, NY	10008	USA
MATULIC	t	ST JOHN FISHER: GOLLEGE	DEPT OF FRYSICS	ROCHESTER, NY	14618	USA
RANHINNEY	ROBERT	UNIVERSITY OF PITTSBURGH		PITTSBURGH, PA	15260	USA
RAY	DAVIB A	UNIVERSITY OF TOROXTO	40 ST. GEORGE STREET	TORONTO	#5\$ 1A7	
ACCLAIN	STEPHEN	CORNELL UNIVERSITY	110 QUEEN STREET	ITHACA, NY	14850	USA
ACCRORY	ROBERT	UNIV OF ROCH/ LLE	250 EAST RIVER ROAD	ROCHESTER, NY	14623	USA
MCGRATH	PAUL	LAB FOR PHYSICAL SCIENCE	12613 LAURIE BRIVE	SILVERSPRING, NO	20904	USA
HETCALF	HAROLD	SUNT STORT BROOK	PHISICS MEPT	STONY BROOK, NY	11790	USA
MEUCCI	RICCARDO	ISTITUTO MAZIONALE OTTIC	LARDO E FERRI 6	FIRENZE	50125	ITALY
MEYERHOFFER	DAVID	UNIVERSITY OF ROCHESTER	220 NOPERAN BLDS	ROCHESTER, MY	14627	USA
HEYSTRE	PIERRE	UNIVERSITY OF ARIZONA	OPTICAL SCIENCES CENTER		85721	AZU
MIES	FREDERICK	NIST		SAITHERSBURG, NO	20899	USA
MILBURN	SERARD J	UNIVERSITY OF BUEEKSLAND	BEPT OF PHYSICS	BRISDANE	4067	AUSTRALI
MILLER	EDWARD	UNIVERSITY OF ROCKESTER	95 CRITTENSEN ROAD	ROCHESTER, NY	14620	USA
HILOKKI	PETER W	LOS ALAROS MATIONAL LAB	RS 3549	LOS ALAHOS, MA	87545	USA
MITSCHLE	FEDOR	BHIVERSITY NAMESYER	INST FOR OWANTENOPTICS	WANNOVER	40025	FRG
MLYKEK	JURGEN	ETH ZURICH	ETH NONGGERBERS (NPT)	IVERICH	8093	SWITZERL
HOLONET		HERIOT-WATT-UNIVERSITY		EDINBURSH		
ROLONEY	JERRY	HERIOT-WATT UNIVERSITY	PHYSICS DEPT	EDINBROH, SCOTLAND	78712	Ur TU
HOORE	RARY ANNE		60 GARDEN STREET	CAMBRIDGE, MA	02138	420
		HARVARD COLLEGE OBSERV	5160 LERAIRE	QUEBEC PA	628261	CAMADA
MORIN	MICHAEL BAUID C	UNIVERSITE LAVAL		RENT, OH	44240	USA USA
MOROI	DAVID S.	KENT STATE UNIVERSITY	925 CRAIN AVENUE	FATETTEVILLE, AK	72701	USA
NORTAZAVI	MANSOUR	UNIVERSITY OF ARKANSAS	DEPT OF PHYSICS UA	TRICITEVILLE, AL	16/01	אבע

C006 REGISTRATION LIST

LASTNAME	FIRSTMAR	ORGANIZA	ADDRESS1	ADDRESS2	MAILCODE	COUNTRY
MOSSBERG	THOMAS W	UNIVERSITY OF OREGON	BEPT OF PHYSICS	EUSENE, OR	97693	USA
MUELLER	MICHIEL	UNIVERSITY OF ANSTERDAN	NIEUWE ACHTERGRACHT 127	ANSTERDAN	1018#5	NETHERLAN!"
MUKANEL	SHAUL	UNIVERSITY OF ROCHESTER	CHEMISTRY BEPT	ROCHESTER, MY	14627	USA
MULLER	HARMGEERT .	FOR INSTITUTE	REGISLAAN 407	ANSTERBAN	109054	WETHERLAN!
McIVER	JOHN	UNIVERSITY OF NEW REXICO	DEPT PHYSICS & ASTROLOG	ALBUQUERQUE, MA	82131	USA
NABORS	CHARLES	STANFORD UNIVERSITY	SINZTON LAB, 810	STANFORD, CA	94305	USA
HATAHARA	M OXINUZTAR	NIPPON ATOMIC INDUSTRY	4-1 UKISHIMA-CHO	KAWASAKI	210	JAPAN
XARDUCCI	FRANCESCO	DREXEL UNIVERSITY	SON MONELL LANE	HAVERTOUN, PA	19083	USA
MARDUCCI	LORENZO M	BREXEL UNIVERSITY	3219 AND CHESTING ST	PHILADELPHIA, PA	19104	USA
NI	WEI-TOU	ISING-NIA MINERSITY	PHYSICS BEPT	RSINCRU	30043	CHINA
MIEMHUIS	GERARD	UNIVERSITY OF WIRECHT	P8 891 80000	UTRECHT	3500	NETHERLAND:
MIETOVESPERIMAS	RAMUEL	INSTITUTA DE OPTICA ESIC	SERRAND 121	RADRID	28006	SPAIN
HOH	JAEW00	UNIVERSITY OF ROCHESTER	334 SHIMI MAD	ROCHESTER, NY	14623	USA
HUSSENZVEIG	HERCH	CATHOLIC UNIVERSITY, RIO	R HILARIO DE GOUVEIA 97	RIO DE JAMEIRO	22040	BRAZIL
O'GORMAN	JAMES	TRINITY COLLEGE	PHYSICS DEPARTMENT	DUBLIH	2	ų r
OLIVER	BRIAN	UNIVERSITY OF ROCHESTER	BEPARTMENT OF PHYSICS	ROCHESTER, NY	14627	USA
0PP0	SIAH LUCA	BREXEL UNIVERSITY	32% AND CHESTNUT ST	PHILADELPHI, PA	19104	USA
OU	ZHE-YU	UNIVERSITY OF ROCHESTER	BEPT OF PHYSICS	ROCHESTER, MY	14627	USA
OZAVA	HAMAMAO	MORTHWESTERN UNIVERSITY	2730 MANPION PERY 881	EVANSTEN, IL	60201	USA
OZIZMIR	ERCUMENT	COLLEGE OF STATEM ISLAND	44 PARE PLACE	STATEN ISLAND, HY	10301	L3A
PALMA	MASSINO 6	IMPERIAL COLLEGE	LASER OPTICS, BLACKETT	FORDOR	587 282	UI
PALKER	CHRIS A	MILTON ROY CO	H 820 LINDEN AVENUE	ROCHESTER, MY	14625	USA
PAPDERETFICU	STEPHANOS	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14627	USA
PART	JONG-DAE	UNIV OF NEW MEXICO	1180 ALVARABO 8214	ALBUQUERQUE, NA	87108	USA
PARTINS	SCOTT	UNIVERSITY OF WAIRATO	PHYSICS DEPT	MANILTON		NEW ZEALANT
PAUL	ANDREW	UNIVERSITY OF ARIZONA	528 E. LESTER	TUSCON, AZ	85705	· USA
PEDERSEN	HANS	HORNEGIAN INSTITECH	KASHIRSKOE SHOSSE 31	TRONDHEIM	115409	MORNAY
PEGG	BAVID T	GRIFFITH UNIVERSITY	SCHOOL OF SCIENCE	MATHAN, QLD	4111	AUSTRALIA
-PEREIRA	SILVANIA	CALTECH	MAIL CODE 12-33	PASADENA, CA	91125	USA
PERSICO	FRANCESCO	ISTITUTO DE FISICA	VIA ARCHIRAFI 36	PALERMO	90123	ITALT
PESQUERA	LUIS	UNIVERSITY CANTAGRIA	BPT FISICA NOD FAC CIEN	SANTANDER	39005	SPAIN
PETHEL	SHAWN	UNIVERSITY OF HUNTSVILLE	209 S OXFORD CIRCLE	RERIDIANVILLE, AL	35759	USA
-PETHEL	SHAWN	UNIV OF HUNTSVILLE	- 209 S OXFORD CIRCLE-	MERIDIANVILLE, AL	35759	
PETTIAUX	NICOLAS P	UNIV LIBERTE BRUXELLES	PLATHE C P 231	BRUSSELS	1050	BELGIU*
PHILLIPS	KENNET	UNIV OF ARKANSAS	DEPT OF PHYSICS	FAYETTEVILLE, AR	72701	USA
PHOENIX	SIMON	- IMPERIAL COLLEGE	LASER OPTICS, BLACKETT	FEMBON	SW7 28Z	y r
PIKE	EDVARI	KINGS COLLEGE LONDON	STRANG	Leigen	WC2R2LS	U t
PILLOFF	H S	OFFICE OF MAYAL RESEARCH	800 H STINCY, 111218	arlington, va	2,2217	USA
POLITI	ANTONIS	ISTITUTO MAZIONALE OTICA	LARO E FERRI 6	FIRENZE	50125	ITALY
POLITI	ANTONIO	INSTITUTE NAT STEER	LARGO E.FERRI 4	FIRENZE	50125	ITALY-
POSTAN	AARON	MRC ASSOC MICON	1243 BILLOUPROOF PR DA	AMATSVILLE, AL	35802	usa
-PRIOR	YENIAM	WEIZHAMM INSTITUTE	- Dept of Emerical Paysic	RENOVOT		ISRAEL
PRIOR	YEHIAN	WEIZHANN INSTITUTE	BEPT CHEMICAL PHYSICS	BERGVOT	01824	ISRAEL
PRITCHARD	BAVIS	MIT	77 MASS AVE, 26-237	CARRIDSE, RA	02139	USA
PUCCIONI	SIAMPIERO	ISTITUTO NAZIONALE OTTIC	LARGO E FERNI 6	FIRENZE	50125	ITALY
PURI	RAVINDER		SARC .	BORBAY	94	INDIA
RAI	JAGDISH	US ARMY MISSLE COMMAND	1221 WILLSWEROOK ER #1	BUNSTVILLE, AL	35802	USA
RAIMOND	JEAN	ECOLE MORMALE SUPERIEURE	24 RUE LHAROND	75005 PARIS		FRANCE
RAHKIN	MICHAEL	UNIVERSITY OF MARYLAND	MAVAL AIR DEV CTR	365 NEWTOWN RD 2	18974	USA
RARITY	JOHN	RSRE	ST ANDREWS ROAD	MALVERH, WORES	143PS	UK
RAYRER	MICHAEL	UNIVERSITY OF OREGON	BEPT OF PHYSICS	EUGENE, OR	97405	USA
q REED	VALERIE	BYFORD UNIVERSITY	CLARENDON LAB, PARES RI			UK
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CQ06 REGISTRATION LIST

LASTNAME	FIRSTNAM	ORGANIZA	ADDRESS1	ADDRESS2	MAILCORE	COUNTRY
REID	HARGARET	UNIVERSITY OF WAIKATO	PHYSICS DEPT	HANILTON		NEW ZEALAND
REMPE	GERHARD	UNIVERSITY RUNICH	PHYSIK BEPT	B-8046 GARCHING		FED REP GES
REYNALD	SERGE	CHRS-ENS-UPIC	SPECTROSCOPIE HERTZIENN	PARIS	75252	FRANCE
RISKEH	HAMMES	UNIVERSITY OF ULH	THEORETISCHE PHYSIK	7900 ULN		FED REP GER
RITCHIE	ADAN	LAURENCE LIVERNORE LAB	1951 CREEK ROAD	LIVERHORE, CA	94550	USA
RITSCH	HELHUT	UNIVERSITY OF INNSBRUCK	INST FOR THEOR PHYSIC	INNSBRUCK	6020	AUSTRIA
RODGERS	PETER A	RUTHERFORD LAB	LASER DIVISION	CHILTON DIDCOT	0x1100x	fi k
ROSATZIN	MARTIN	ETH ZURICH	ETH-NOEMSSERBERG NPT	ZURICH	8093	SWITZEPLAND
ROSENBERGER	ALBERT T	SCUTKERN METHODIST SMIV	BEPT OF PHYSICS	BALLAS, TX	75275	USA
ROY .	RAJARSHI	GEORGIA TECH	SCHOOL OF PHYSICS	ATLANTA, SA	30332	420
RU	PING	DREXEL UNIVERSITY	3741 PRELITEN AVE, 828	PHILADELPHI, PA	19104	USA
RUYTEN	WILHELMUS	UNIV TERM SPACE INST.	19995 RESERVATA	TULLAHONA, TN	37388	USA
RZAZEWSKI	IAZINIERZ N	UNIVERSITY OF ROCHESTER		ROCHESTER, NY	14623	USA
SACES .	RICHARD	LLNL	PO BOX 5508	LIVERHORE, CA	94550	USA
SALEHI	JAVAD	BELLCORE	445 SOUTH STREET	HORRISTOWN, NJ	07960	USA
SAN MIGUEL	8	UNIV IS LAS BALEARS	BPTO BE FISICA	PALMA MALLORCA	07071	SPAIN
SANCHEZ-MONDRAGO	JAVIER	INVESTIGACIONES OPTICA	APDO POSTAL 948	LEON, GT	037000	MEXICO
SARGENT	HURRAY	UNIVERSITY OF ARIZONA	BPTICAL SCIENCES CENTER	•	85721	USA
SCALORA	HICHAEL	RENSSELAR POLYTECH INST		TROY, MY	12180	USA
SCHENZLE	AXEL	UNIVERSITY OF MUNICA	SELTION PHYSIK	NUNICH	8000	FED RED GE
SCHOONRAKER	DAVID	OKLAHONA STATE UNIV			74075	
			815 NORTH ROURDE	STILLWATER, OR		USA .
SCHREIBER	WILLIAM R	COLLEGE OF STATEM ISLAN)		STATEN ISLAND, NY		USA
SCULLY	MARLAN	UNIVERSITY OF NEW MEXICO		ALBUQUERQUE, MR	87131	423
SEKE	JOSIP	TECHN UNIVERSITAET WIEN				AUSTR::
SHAPIRO	JEFFREY H	MIT	ROOM 36-477	CAMBRIDGE, MA		USA
SHEPARD	SCOTT	MII	ROOM 34-479	CAMBRIDGE, MA	02139	USA
SHEYY	TAAKOV	CALTECH	PHYSICS BEPT, 12-33	Pasabena, Ca	91125	V54
SHORE	BRUCE	LLML	PG BOX 808, L-438	LIVERMORE, CA	94550	usa
SIBILID	CONCITA	UNIV OF ROME	VIA SCARPA 16	ROME	00161	ITALY
SINON	Rajiah	INST MATHEMATICAL SCIENC		Hadras	600113	india
SINGER	FAIGE F	COLUMBIA UNIVERSITY	535 W. 111TH STREET	MEN YORK, NY	10025	USA
SINGH	SURENDRA	UNIVERSITY OF ARRANSAS	PHYSICS DEPT	FAYETTEVILLE, AR	72701	USA
SIZRANN	ANDREAS	HPI FOR QUANTUM OPTICS	POSTFACH 1513	3-8046 SARCHING		FED REF G
SKIPPON	STEPHEN	SHELL RESEARCH LAB	PO BOX 1	CHESTER		ų r
SLOSSER	JOHN	UNIVERSITY OF ARIZOMA	528 E LESTER	TUESON, AZ	85705	USA
SLUSHER	RICHART	ATAT BELL LABS	SOO HOUNTAIN AVE	BURRAY HILL, NJ	07974	USA
SHORDON	PETER	OXFORD UNIVERSITY	CLARENDON LABORATORY	CXFORD	OX13PU	UK
SONG	SHANG	UNIV OF SOUTHERN CALIF	CTR FOR LASER STUDIES	LOS ANGELES, CA	90089	USA
SOURES	JOHN N	UNIVERSITY OF ROCKESTER	LLE 250 EAST RIVER ROAD	•	14623	USA
SPANO	FRANK C	UNIVERSITY OF ROCHESTER	CHAISTAY NOT	ROCHESTER, NY	14627	USA
SPREEUX	ROBERT J	UNIVERSITY OF LEIDEN	P8 38X 9544	LEIDEN	2300RA	NETHERLAY
STENHOLA	\$116	RESEARCH INST THEOR PAYS		HELSINKI	00170	FINLANT
STEPHAN	601	RENNES UNIVERSITE	ENSSAT, & RUE DE RERANPO		22305	FRANCE
STOOF	HENR T	EINDROVEN UNIV OF TECH	PEHELBPESTRAAT 169	EINDHOVEN	11047	KETHERLAN
STROUP		UNIVERSISTY OF RECRESTER	INST OF OPTICS	ROCHESTER, MY	14627	USA
	CARLUS		THOU SE PELITOR			USA
SUDARSHAH	GEORGE	UNIVERSITY OF TEXAS	ETI TAUHABEMERAER AAA	AUSTIN, TEXAS	78712	
SUOPINEN	RALLE A	RESEARCH INST THEOR PHYS		HELSIKKI	00170	Finiali Cuerch
SYANBERG	SUNE	LUND INSTITUTE OF TECH	DEPARTMENT OF PHYSICS	22100 LUND	11973	SUEDEN
SWAIN	STUART	QUEENS UNIVERSITY	APPLIED NATHS DEPT	BELFAST	877 1HH	
SVANSON	RAND	MONTANA STATE UNIVERSITY		BOZENAN, MT	59717	USA
SZABO	ALEX	HATL RESEARCH COUNCIL	BL06 H 5.	OTTAWA, ONTARIO	EIA OR6	
TARR V	CHRISTIAN	TECH BUNDESANSTALT	LAB 4.42	BRAUNSCHWEIG	B-3300	FED REP 3

CODA REGISTRATION LIST

LASTNARE	FIRSTNAM	ORGANIZA	ADDRESS1	ADDRESS2	841_000E	CELATRY
TEICH	RALVIN	COLUMBIA UNIVERSITY	DEPT OF ELECTRICAL ENG	HEN YORK, NY	10027	US=
TER-MIKAELIAN	MIKHAIL	INSTITUT FOR PHYSICS	ARRENIAN SSR USSR	ASHTAZAK 2	00681	USSR
TERVONEN	EERO	HELSINKI UNIV OF TECH	BEPT OF TECHNICAL PHYSI		02150	FINAN
TEWARI	SURYA P	UNIVERSITY OF HYDERABAD	SCHOOL OF PHYSICS	HYBERABAD, AP	500134	intia.
THORPSON	RICHARD C-	- IMPERIAL COLLEGE	BLACKETT LABORATORY	LOWDON	- EN7-252-	-1-1
THOMPSON	JOHN R	GEORGIA TECH	SCHOOL OF PHYSICS	ATLANTA, SA	30332	154
THOMPSON	RICHARD	IMPERIAL COLLEGE	BLACKETT, PRINCE CONST R		587287	ij
THOMPSON	ROBERT	CALTECH	378 S CATALINA, APT 101		91106	USA
TORBESI	PAOLO		DEPT PHYSICS P.A.RORD 2	•	00185	LIALY
TORPXIN	WAYNE	UNIVERSITY OF ROCHESTER	43 LILAC DRIVE, APT 5	ROCHESTER, MY	14620	U54
TOSCHEX	PETER E	UNIVERSITY OF NAMBURG	JUNGIUSSTRASSE 9	D-2000 HAMBURG 36		FET REF
TREDICCE .	JORGE	DREXEL UNIVERSITY	32HD AND CHESTMUT ST	PHILADELPHI, PA	19104	USA
TRIPPENBACH	MAREK	UNIVERSITY OF COLORADO	JILA	BOULDER, CO	80309	
TROBBETTA	FABIG	UNIVERSITY OF PALERNO	ISTITUTO DI FISICA	PALERMO		USA
TROMBETTA	FABIO	UNIV OF PALERRO	INST DI FISICA	PALEONO .	90123	ITALY
TUCCI	ROBERT	HIT LINCOLN LABS	PO BOX 73 -		-90123	-!iåci
UPPAL	j	HERIOT-WATT UNIVERSITY		LEXINGTON, RA	02173	USA
VALEE	REAL	UNIVERSITE LAVAL	PHYSICS DEPARTMENT	EDINDURGH	C1 2224	UK
VAN D HEUVELL	HENRICUS		PHYSICS BEPARTMENT	STE-FOY	611794	CANA? 4
WANASSE -	- 65886E	FON-INSTITUTE	KRUISLAAN 407	ANSTERBAN	109857	NETHER.
		AIR FORCE SEOPHYSICS LAT		CHELTSFORD, HA	01824	
VANASSE	GEORGE	AIR FORCE GEOPHYSICS LAB		CHELASFORD, MA	01824	420
VERUR!	Gaujar	GEORGIA TECH	SCHOOL OF PHYSICS	ATLANTA, GA	30332	USA
VILASECA	RANCH	UNIVERSITAT BE VALENCIA		BURJASSOT	46100	SPAIN
VYAS	REETA	UNIVERSITY OF ARKANSAS	PHYSICS DEPT	FAYETTEVILLE, AR	72701	
VALLS	DANIEL	UNIVERSITY OF AUCKLAND	PHYSICS DEPARTMENT	AUCKLAND		NEW ZEA
WALRSLEY	IAN A	UNIVERSITY OF ROCHESTER	THE INSTITUTE OF OPTICS	ROCHESTER, NY	14627	USA
MALTHER	HERBERT	NPI FUER QUANTEMOPTIK		BARCHING	8046	EEB BE
Wans	WEIJIAN	UNIVERSITY OF ROCHESTER	225C COMANT ROAD	ROCHESTER, NT	14623	USA
wang	LIJUN	UNIVERSITY OF ROCHESTER	BEPR OF PHYSICS	ROCHESTER, NY	14627	AZU
WEIS	ANTOINE	ETH-HOXEGERBERG	INST HIGH ENERGY PHYS	ZURICH	8093	SMITZES
WEISS	CARL	PHYS TECH BUNDESANSTALT	LAB 4.42	BRAUNSCHWEIG	0-3300	FED RE
NESTLING	LYNN	SWARTHMORE COLLEGE		SWARTHHORE, PA	19081	429
WHITHEY	KENNETH	NAVAL RESEARCH LAB	45056 SAHALEE CT	ALEXAMDRIA, VA	22312	USA
BHITTAKER	EBWARB	STEVENS INST OF TECH	PEPARTRENT OF PHYSICS	NOBOKEN, NJ	07030	USA
WINFUL	HERBERT	UNIVERSITY OF MICHIGAN	EECS BEPT	ANN ARBOR, NI	48109	US4
VINSU:	HERBERT-	- UNIVERSITY OF MICHIGAN -	EECS PEPT	AMI ARBOR, NI	48109	-USA
HODKIENICZ	RRZYSZTOF	WARSAW WAIVERSITY	INST THEORETICAL PHYSIC	•	09681	POLANI
MOERDHAN	HAN	UNIVERSITY OF LEIDEN	PO BOX 9504	LEIDEN	2300RA	NETHER.
WOLF	EMIL	UNIVERSITY OF ROCHESTER	PHYSICS DEPARTMENT	ROCHESTER, NY	14627	USA
Mong	FRANCO NC	HIT	ROSH 34-487	CAMBRIDGE, MA	02139	USA
AANHE .	ELAAS -	UNIVERSITY OF ANSTERDAN	NIEUWE ACHTERGRACHT 127	ARSTERDAR	101885	NETHERL
TAHADA	KEICHI Y	HEN YORK BAIVERSITY	4 BASHINGTON PLACE	NEW YORK, MY	10003	USA
OTORAKAY	YOSHIHISA	HTT BASIC RESEARCH LAB	3-9-11, WIBORICHS	TORYO .	155	Japan
YEAZELL	JOHN A	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14627	USA
YUEN	HORACE	NOTHWESTERN UNIVERSITY				
YURKE	BERNARD	ATET BELL LABS	3920 RIESS BRIVE 600 HOUNTAIN AVE	GLENVIER, IL	60025 07974	USA
ZAID!	HAIDER	DRIV OF NEW BRUNSWICK		MURRAY HILL, NJ		USA
ZHU	SHI-YAG		UNIV OF NEW BRUNSWICK	FREBERICTON, NR	E3B5A3	CANADA
ZHU	AILA	UNIVERSITY OF HEM MEXICO		ALBUQUERQUE, NH	87131	USA
ZHU		UNIVERSITY OF ORESON	DEPARTMENT OF PHYSICS	EUGENE, OR	97403	USA
	CHANG	BNIV OF SOUTHERN CALIF	Chair FRANCE AA A	LOS ANGELES, CA	90089	USA
ZOLLER	PETER	UNIVERSITY OF INMSTRUCK	LOTILERNES 40 A	INNSBRUCK	6020	AUSTRIA
ZOL	XINGTU	UNIVERSI", ROCHESTER	DEPT OF PHYSICS	ROCHESTER, WY	14627	USA

COGÓ REGISTRATION LIST

		ORGANIZA	ADDRESS1	ADDRESS2	1403_14R	COUNTRY
LASTNARE	FIRSTNAM			ISLAMABAD	00661	PARISTAN
ZUBAIRY	M. SUHAIL	QUAID-I-AZAN UNIY				
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